Yukon River Basin Study
Project Report: Placer No. 1

Placer Mining Industry in Yukon and Atlin Mining Division, British Columbia

by

R.L. Debicki

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Geology Section, D.I.A.N.D.,
200 Range Rd.,
Whitehorse, Yukon
Y1A 3V1

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PROJECT TERMS OF REFERENCE

This project was to compile information concerning all aspects of the placer mining industry in the Canadian portion of the Yukon River Basin. To that end, information concerning the placer mining industry in Yukon and the Atlin Mining Division of British Columbia was assembled. The only regions within those jurisdictions where placer mining does occur, but which lie outside the Yukon River Basin are at Sheep Creek, a tributary of Firth River in northernmost Yukon, and at Dollis (Squaw) Creek, a tributary of Tatshenshini River at the Yukon-British Columbia boundary.

Information concerning the history of the placer mining industry in the Yukon River Basin is summarized. A list of references to many creeks on which placer activity has occurred is included in case additional data concerning specific creeks is sought.

Regulatory regimes governing property acquisition, mining, and rehabilitation in British Columbia and Yukon are summarized. Those in Alaska are also summarized for the sake of comparison.

Location maps showing the distribution of placer dispositions as of January 1, 1981, and of mining operations between 1978 and 1982 are included. Legends list the names of operators and the years in which they were active.

The types of placer deposits found in the Yukon River Basin, and the methods of mining, processing, and treating wastes from such deposits are described. Economic factors which affect the viability of mining operations are also described.

Gold production from the Yukon River Basin is listed. Information indicating the importance of certain creeks relative to others as producers is also listed.

The implications of information presented in this report on the role of the placer mining industry in the economy of the Yukon River Basin region, and its future are considered.

The project report is concluded by a comprehensive bibliography of reports concerning placer deposits, placer mining and processing methods, and the placer mining industry in the Yukon River Basin.

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PROJECT DESCRIPTION AND BUDGET

Work on this project was done in conjunction with work on a similar project sponsored by Geology Section, Department of Indian Affairs and Northern Development (D.I.A.N.D.), Whitehorse, Yukon. The D.I.A.N.D. project involved compilation of information concerning all aspects of the placer mining industry over the period 1978 to 1982, and preparation of a volume for publication from the information compiled. Salary for work on both this project and the D.I.A.N.D. project was provided by D.I.A.N.D. Funds to cover operating costs, including transportation and accommodation during 3 months' of field work and 4 months' of data compilation and report preparation were provided by the Yukon River Basin Study. A maximum of $10,000.00 to cover operating costs was available. A total of $8,090.93 was expended as follows.

Transportation	$4,829.82
Accomodation	962.10
Groceries/Meals	747.41
Supplies (includes maps, air photos, camp gear)	944.25
Incidentals	107.35
Contracted Office Services	500.00
Total	$8,090.93

STUDY RESULTS

The results of this study are presented in a number of sections under headings indicating the information contained therein. Sources of data are indicated where data was not obtained from readily available publications. Note is made where additional complementary information will be available in publications due to be released soon.

HISTORY OF THE PLACER MINING INDUSTRY IN YUKON

Yukon is famous for the stampede of prospectors to the Klondike in 1898 after news of the rich placer deposits discovered in the area reached them. Placer mining had, however, been carried on in the territory for many years prior to the gold rush.

The first miners were undoubtedly Indians who recovered native copper from Kletsan Creek at the headwaters of the White River. Hudson's Bay Company explorer Robert Campbell reported gold at Fort Selkirk in 1850. Prospecting parties moved into Yukon in 1872, after activity in the Cariboo placer district to the south had cooled. That year, the party of Arthur Harper, Leroy (Jack) McQuesten, and Albert Mayo reported gold "colours" on the Liard River, "fair prospects" on the Peel River, "colours" on the Porcupine River, and "colours everywhere" on the Yukon River.

In 1874, coarse gold was discovered for the first time in the territory at Sayyea Creek. The deposit was not rich by the standards of the day: four men worked 115 days to recover 77 ounces of gold. At the same time, other parties prospected on the Frances, Yusesyu, and Hyland Rivers, but found no viable deposits. McQuesten and Mayo built a trading post at Fort Reliance, five miles downstream from the present Dawson City that year.

Access to Yukon was made easier 1880, when the Chilkat Indians were persuaded to allow prospectors to cross the Chilkoot pass. Between 1880 and 1887, prospecting activity increased. Numerous "bar" deposits were found on the Yukon, Pelly, Teslin, and Stewart Rivers. Near the end of 1886, coarse gold was found on the Fortymile River. In 1887, there were more than 300 miners on the Fortymile, and bar miners were busy in other areas as well. The mining industry in the territory was finally firmly established.

Veteran prospector Robert Henderson arrived during the summer of 1894. Finding the Fortymile and Sixty Mile Rivers too crowded, he decided to prospect the Indian River. He systematically prospected the Indian and its tributaries in 1894 and 1895. He was not the only prospector exploring new territory: in 1895 miners working their way up the Stewart and McQuesten Rivers discovered gold on Haggart Creek.

Henderson spent the winter of 1895-1896 working on Quartz Creek. Meanwhile, 350 miners were active on Miller, Glacier, and Bedrock Creeks. During the summer of 1896, Henderson made a trip to Ladue's post at Ogilvie for supplies. The water in the Indian River was low, and he knew it would be almost impossible to proceed up that stream, so he went down the Yukon to its confluence with the Klondike. There, he found George Carmack and two Indians, "Skookum Jim" and "Tagish Charlie", who were fishing for salmon. In accordance with custom, Henderson announced a discovery he had made on Gold Bottom Creek, and invited Carmack, but not the Indians, to stake on the creek.

Carmack reluctantly promised to visit Gold Bottom Creek, as he was more interested in logging than in prospecting. Skookum Jim saw colours in Bonanza Creek near Sourdough Gulch on a trip to look for good trees, but Carmack was not influenced by Jim's enthusiasm. A few weeks later, however, he decided to visit Henderson and do some prospecting. Their visit was a disappointment, and Carmack, Jim, and Charlie returned to Bonanza Creek. There, on August 16th, they decided to stake.

The trio proceeded to Forty Mile to record their claims. When news of the

discovery became known to the miners in the Forty Mile district, they all stampeded to Bonanza Creek. Within 3 months, 500 claims were staked. Extensive prospecting commenced, and in a few months the remarkable wealth in the gravels of Bonanza and Eldorado Creeks was revealed.

It was almost a year before news of the strike reached the "outside". When it did, thousands of gold seekers immediately started for the Klondike, and the "Klondike Gold Rush" was on.

Mining procedures to about 1901 were labour-intensive. The cost of bringing machinery 4,000 miles by steamship precluded its use. Heavy machinery became available in 1900 when the White Pass Railway was completed to Whitehorse. With the exception of a small steam dredge put into production on Cassiar Bar below Hootalinqua in 1898, however, dredges did not appear in the territory until 1905.

While the Klondike area held the attention of the mining fraternity and the general public, the prospectors were not idle. In 1896, Jack Dalton found gold in the Dezadeash area. Gold was also found that year in Johnson Creek, a tributary of the McQuesten River. In 1898, Scroggie, Barker, Henderson, and Clear Creeks were discovered. Duncan Creek and Dublin Gulch in the Mayo area were found, Hayes Creek in the Dawson Range was found, and Alder Creek in the Dezadeash area was found. Additional discoveries were made each year to 1905, and have been made sporadically since then.

The dredges and hydraulic mining operations in the Klondike were the mainstay of the territory's economy between 1900 and 1933. Then in January, 1934, the U.S. government set the price of gold at $35.00 per ounce, almost double the existing price. A new wave of prospectors rushed to the Yukon.

Mining activities were reduced with the outbreak of war in 1939. By the end of the war, bulldozer mining had become common, but the cost of labour and supplies had risen to the extent that most of the creeks could no longer be mined profitably. Gold mines in all areas of Canada were closing by the end of the 1940's when the federal government introduced a subsidy on gold production. Most placer mines in the territory took advantage of the subsidy until the rise of the gold price in the early 1970's.

In the mid 1960's, most placer operations ceased. Even Yukon Consolidated Gold Corporation shut the last of its dredges in 1966. A handful of miners continued to work, but most operated on a very small scale.

The rising price of gold in the early 1970's created new interest in placer mining. As the price continued to increase in the late 1970's, staking and mining activity increased accordingly. Activity peaked in 1980 and 1981, and then slumped in 1982 after significant declines in the price of gold during 1981 and 1982.

HISTORY OF THE PLACER MINING INDUSTRY IN THE ATLIN MINING DIVISION, BRITISH COLUMBIA

The first discovery of placer gold in British Columbia was made at the mouth of the Nicoamen River in 1857. It initiated the 1858 rush to the lower Fraser River at Yale and points upstream. Discoveries made in the Cariboo area on the Quesnel River, and in the vicinity of Barkerville came rapidly. By 1872, activity in the Cariboo area had cooled, and prospecting parties were searching for new deposits. Gold was found on Dease and Thibert Creeks in the Cassiar area in 1873. In 1874, gold was discovered farther north at Sayyea Creek in the southern part of Yukon.

No significant new discoveries were reported in northern British Columbia between 1873 and 1898, when gold was discovered on Pine Creek in the Atlin area by Messrs. Miller and McLaren. The facts that the journey to the area was made in winter and the discovery made in January suggest that the discoverers possessed information which led them to the creek and the deposit. The knowledge of the occurrence may have been general, but the occurrence might not have been thought worth investigating until after the richness of the newly discovered Klondike gold fields became apparent.

The news of the discovery on Pine Creek reached Victoria in August 1898. Thousands of prospectors then made their way to the Atlin area. That season, most of the other gold-bearing creeks in the area were also discovered. Several thousand miners were living in a tent camp which extended along Pine Creek over six miles between Atlin and Discovery by autumn.

Most of the shallow, easily worked deposits were worked out during the first few seasons by holders of individual claims and leases. The difficulty of working deep ground, and of disposing of tailings on 100 foot claims forced many miners to leave. Those who remained were able to group several claims to be worked together. Supplies of water were obtained to allow work on a large scale. Ditches to bring water to Pine Creek for hydraulic mining were begun in 1900, and put into use in 1902. Hydraulic mining was begun that same year on Birch and Spruce Creeks, although the Spruce Creek venture was unsuccessful, and on McKee Creek in 1903. A dam was built at the mouth of Surprise Lake in 1905 to increase the storage capacity of the lake, and to provide additional water for hydraulicking. Hydraulic mining operations were active on several creeks for 25 years or more.

Hydraulicking is the method by which most of the mining in the Atlin area was done. More than one-third of the total gold recovered was recovered by hydraulic operations. When production from Spruce Creek, which came largely from underground workings and surface reworkings of tailings from underground workings is excluded, more than two-thirds of the gold recovered was recovered by hydraulic mining operations.

Mechanized mining was begun in 1904. A dredge was used unsuccessfully in 1904 and 1905 on Pine Creek. About the same time, a second dredging operation near the head of Spruce Creek, and a steam shovel operation on the same creek were also not successful. A steam shovel operation on Pine Creek in 1906 and 1907 was, however, successful.

Placer mining activity in the Atlin area declined gradually as the shallow ground was worked out, until in 1930 production was only one-tenth of what it was in 1898. After 1934, the abrupt increase in the price of gold, followed by devaluation of the dollar

caused renewed activity in the area. A steam-shovel operation on Spruce Creek, and underground mines on Spruce, Otter, McKee, and Ruby Creeks were active. Bulldozers were introduced to placer mining in the area in 1940 on Pine Creek.

Placer mining activity declined again after 1944. Intermittent underground mining of the deeply buried deposits of central Spruce Creek provided most of the gold recovered. By 1956, production had declined to less than 2,000 ounces per year. By 1966, it had declined further to less than 100 ounces per year.

The rising price of gold in the early 1970's created new interest in placer mining. As the price continued to rise during the late 1970's, staking and mining activity increased accordingly. Underground workings were re-opened, and many bulldozer and drag-line open cut operations were begun. Activity peaked in 1980 and 1981, and declined in 1982 after the decline in the price of gold during 1981 and 1982.

While placer mining activity in the Atlin Mining Division was centered on the Atlin area, prospecting was done in other parts of the division. Gold was found on Squaw (Dollis) Creek in 1927. The creek, which is notable for its coarse grave and large boulders, has comparatively shallow gravel. It was worked by hand in the years following its discovery. Bulldozer operations have been active on the Yukon portion of the creek since the mid 1970's. The gold recovered from Squaw Creek is unusually coarse.

REFERENCES TO PLACER CREEKS

The following lists are of references to published information concerning most creeks in Yukon, and the Atlin Mining Division of British Columbia on which there was placer activity during recent years. They include references to Geological Survey of Canada reports published between 1863 and 1968, Department of Indian Affairs and Northern Development publications covering 1941 to 1959, and 1969 to 1977, and British Columbia Department of Mines reports published between 1874 and 1979. Additional references to creeks not listed here, or to individual deposits may be found by searching the general indices to Geological Survey of Canada and British Columbia Department of Mines publications, and the indices of individual publications for which general indices are not available.

The lists of references include a number of standard abbreviations for agency and report names. They are:

Ann. Rept.	Annual Report
B.C.D.M.	British Columbia Department of Mines
Bull.	Geological Bulletin
D.I.A.N.D.	Department of Indian Affairs and Northern Development
Econ. Geol.	Economic Geology Series
G.S.C.	Geological Survey of Canada
Geo. Expln. Min.	Geology, Exploration, and Mining
Mem.	Memoir
Paper	Paper
Pub.	Separate Report, Publication No.
Sum. Rept.	Summary Report
Yukon Min. Ind.	Yukon Mineral Industry

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LEGISLATION AND REGULATIONS GOVERNING PLACER MINING

Legislation and regulations governing placer mining differ in different jurisdictions. Excerpts from relevant legislation and regulations for British Columbia, Yukon, and Alaska are listed below. Addresses where additional information may be obtained are also listed. Anyone planning staking or mining activities is advised to contact the appropriate agency for complete information prior to beginning work.

BRITISH COLUMBIA

Jurisdiction: Provincial

Staking Regulations: Placer dispositions in British Columbia are know as leases. Leases may be staked by any person holding a valid "free miners" license. In order to obtain a license, one must be 18 years of age or older, and a Canadian citizen or a landed immigrant who has been a resident of Canada for less than 8 years.

Placer leases may be staked only within designated placer areas. Application may be made to the Chief Gold Commissioner to have areas not currently designated become designated, but such application does not guarantee designation.

Placer leases are up to 1,000 m long, and 500 m wide. They may be staked in any direction, but most commonly are staked with the long axis along a creek bed. The location line is marked by initial and final posts inscribed with specified information, and must be blazed and otherwise well marked along its length. One change of direction, not exceeding 90^{o}, is allowed in the location line. It must be marked by an intermediate post. Placer tags must be purchased prior to staking, and affixed to the initial and final posts at the time of staking.

Stakers have 30 days in which to record their leases. Leases may be recorded at any Sub-Recorder's or any Gold Commissioner's office. Two leases may be staked by the holder of a free miner's license during a calendar year.

Assessment work totalling $250.00 per year for each placer lease must be carried out. In addition, an annual rental fee of $50.00 must be paid for each placer lease.

Regulations Governing Mining: Regulations of the British Columbia Ministry of Forests, Ministry of Energy Mines and Petroleum Resources, and Ministry of Environment, and the federal Department of Fisheries and Oceans all apply to placer mines in British Columbia.

A Free-Use permit must be obtained from the British Columbia Forest Service before a miner can do exploratory or development work on his lease. Where mining is planned, a License to Cut, and stumpage and royalty payments may be required before trees can be removed from the lease. A Special Use Permit is required where the mining plans require settling ponds or storage areas to be located off the placer lease. Prior approval is needed before a cabin can be constructed.

The interests of the provincial Waste Management and Fish and Wildlife Branches and the federal Department of Fisheries and Oceans are protected by the colour

coding system which designates the environmental sensitivity and operating criteria of individual placer leases. Each lease is given a green, yellow, or red coding before it is granted. The coding indicates which restrictions on mining, equipment use, tailings disposal, and waste-water treatment apply on that lease.

The approval of the Water Management Branch of the Ministry of Environment is required for water use by any operation larger than a hand operation. The cost of water use is $100.00 for each cubic foot or part thereof per second. Permanent structures such as dams, bridges, culverts, or holding ponds require separate approval.

The Inspection and Engineering Branch of the Ministry of Energy Mines and Petroleum Resources requires submission of a notice of work prior to commencement of work, and again prior to cessation of work. Operations using mechanical equipment must post a reclamation bond prior to the commencement of work. Required authorizations granted by other agencies are not issued until the reclamation bond is paid.

Further information may be obtained from district offices of the agencies named, or from:

Chief Gold Commissioner
Ministry of Energy, Mines and Petroleum Resources
Parliament Buildings
Victoria, B.C.
V8V 1X4

and from:

Comptroller of Water Rights
Ministry of Environment
Parliament Buildings
Victoria, B.C.
V8V 1X4

YUKON

Jurisdiction: Federal

Staking Regulations: Placer dispositions in Yukon are of two types known as claims and leases. Either may be staked by any person 18 years of age or older. There are no license or residency requirements.

Placer claims and leases may be staked almost anywhere within the territory. Excluded areas include parks and park reserves, and areas within communities.

Placer claims and leases must be staked along a "base line" which marks the center line of the valley, and of the claim. The stream itself may be some distance from the base line in wide valleys. The base line may or may not have been surveyed. Survey makers may have been destroyed by subsequent mining operations. Resurveys have been done in recent years on many of the creeks on which there has been placer activity. The list at the end of this section indicates the creeks on which base line surveys have been done, and when they were carried out. Survey plans are on file at the office of Surveys and Mapping Branch, Department of Energy Mines and Resources in Whitehorse. Microfilms of the field books are on file at the Department of Energy Mines and Resources in Ottawa.

Placer claims are up to 500 feet long, and are 2,000 feet wide. Claim boundaries are perpendicular to the base line. Wedge shaped claims may result where bends in the base line occur. Larger "discovery" claims are allowed when the claim is the first one staked on a creek. The location line is marked by initial and final posts inscribed with specified information, and must be blazed and otherwise well marked along its length. Placer tags are issued when the claim is granted, and must be affixed to the claim posts within a reasonable time after their issue.

Stakers have 10 days in which to record their claim if the claim lies within 10 miles of the Mining Recorder's office. One additional day is added to the recording time for each additional 10 miles or fraction thereof the claim is from the Mining Recorder's office. One claim per watershed may be staked every 30 days by a staker.

Assessment work totalling $200.00 per year for each placer claim must be carried out. A Schedule of Representation Work lists allowable costs for various types of work.

Placer leases endow exclusive prospecting rights to the holder but not the right to mine. On creeks which have no record of placer activity, a lease may be up to one mile long, and 2,000 feet wide. On creeks which have a record of placer activity, a lease may be up to five miles long, and 2,000 feet wide.

Lease boundaries are also perpendicular to the base line. The location line is again marked by initial and final posts inscribed with specified information, and must be blazed and otherwise well marked along its length. Placer tags are issued when the lease is granted, and must be affixed to the posts within a reasonable time after their issue.

Stakers again have 10 days in which to record their lease if the lease lies within 10 miles of the Mining Recorder's office. One additional day is added to the recording time for each additional 10 miles or fraction thereof the lease is from the Mining Recorder's office.

Every lease which is staked is not necessarily issued. Leases are issued at the discretion of the Commissioner of the territory. One prerequisite for the granting of a placer lease is the financial ability of the lessee to fund a prospecting program on the lease.

Assessment work totalling $1,000.00 per mile, per year for each placer lease must be carried out. A Schedule of Representation Work lists allowable costs for various types of work. Leases on creeks which have no record of placer activity are in effect for one year. After completion of his assessment work, the lessee may stake one discovery claim on his lease. The remainder of the lease then lapses. Leases on creeks which have a record of placer activity may last for three years. After completion of his assessment work in any year, the lessee may stake any or all of his lease into claims.

Any individual may have only one lease at a time. Assignments of leases may be made to other holders, but not without the prior permission of the Commissioner.

Stakers wishing to stake claims or leases more than 1,000 feet from a base line may stake "bench" claims or leases. Such dispositions are 1,000 feet wide rather than 2,000 feet. They may be staked in "tiers" away from the base line, or single

claims or leases may be staked any multiple of 1,000 feet from the base line. All regulations which apply to creek disposition also apply to bench dispositions.

Regulations Governing Mining: Regulations of the federal Departments of Indian Affairs and Northern Development, and Fisheries and Oceans apply to placer mines in Yukon. Regulations of the territorial Departments of Consumer and Corporate Affairs, and Health may also apply.

A Land Use permit must be obtained from Department of Indian Affairs and Northern Development (D.I.A.N.D.) Lands Branch before heavy equipment may be moved across crown land to placer claims or leases. Land Use permits are not required for activities carried out once on the claims and leases.

Water use is regulated by the Yukon Territory Water Board through the Water Resources Branch, D.I.A.N.D. No water may be used without a Water Use authorization. A Water Use license may be required in rare cases if use of extremely large amounts of water over a long time period is planned. Water Use authorizations list the amount of water which may be taken from specified sources, and indicate restrictions on mining, equipment use, tailings disposal and waste water treatment. They are not issued to companies or corporations unless they are registered for business in Yukon with the Yukon Department of Consumer and Corporate Affairs. They are also not issued unless the applicant holds valid claims or leases where the water is to be used.

The federal Department of Fisheries and Oceans does not issue authorizations or licenses to placer mining operations in Yukon. It does, however, inspect operations under the authority of the federal Fisheries Act to ensure that waste-water quality is not deleterious to fish populations.

Several federal agencies have been working with representatives of the placer mining industry in an attempt to establish criteria for water use in placer mining, and waste-water quality standards. When such criteria and standards come into effect, the conditions governing mining listed here may change.

The Environmental Health officer of the territorial Department of Health may require a camp operation application to cover disposal of camp wastes.

Further information may be obtained from:

Supervising Mining Recorder

or from:

Comptroller of Water Rights

both of:

D.I.A.N.D.
200 Range Road
Whitehorse, Yukon
Y1A 3V1

ALASKA

Jurisdiction: State and federal

Staking Regulations: Regulations governing the acquisition of placer properties in Alaska are different for state and federal lands. Anyone considering staking mineral rights in Alaska should first determine whether the area of interest is held by the state or federal governments. Much of the land in the state has been previously committed to a variety of exclusive uses and is not available for claim staking under either state or federal regulations. A "discovery site" of mineralization must be located on each claim staked on either state or federal land for the claim to be valid.

Placer dispositions on state land in Alaska are not recognized as being distinct from lode dispositions. The dispositions, known as claims, include the rights to both placer and lode deposits. Claims may be staked by a U.S. citizen 19 years of age or older, or by an alien 19 years of age or older if his country gives similar staking privileges to U.S. citizens. A license to stake is not required.

Claims on state land are up to 40 acres in area, and up to 1,320 feet in length and width. Boundary lines must be oriented north-south and east-west, and must be brushed out or otherwise marked. Posts inscribed with specified information are required at each corner of the claim.

Stakers have 90 days in which to record claims staked on state land. Claims must be recorded at the office of the Deputy Magistrate of the recording district in which the claim is located. In addition, a copy of the recording notice must be submitted to the Alaska State Division of Minerals and Energy Management in Anchorage. There is no limit to the number of claims which may be staked in a year.

Assessment work totalling $200.00 per year for each claim must be carried out. The deadline for completion of the work each year is September 1, at noon. An affidavit of the work must be filed with the Recorder of the district in which the claim is located by noon of November 30 each year. In some districts the Recorder is an agent of the Court, while in others, he is an agent of the Department of Natural Resources. In addition, a copy of the affidavit must be filed with the State of Alaska Division of Minerals and Energy Management in Anchorage before December 30. If the affidavit indicates a technical survey of any type was done, a detailed report on the survey must also be submitted to the Division of Minerals and Energy Management.

A prospecting site may be staked on state land if no surface exposure is available to justify a "discovery site". Prospecting sites are up to 2,640 feet in length and width. Boundary lines must be oriented north-south and east-west, and must be brushed out or otherwise marked. A post inscribed with specified information is required at the northeast corner of the prospecting site.

Prospecting sites are valid for one year. Renewal may be requested in an application in writing to the Commissioner of Natural Resources for the state. Prospecting sites have an annual rental fee of $800.00.

Placer dispositions on federal land in Alaska are known as claims. Only U.S. citizens are eligible to stake claims on federal land in Alaska. A license to stake is not required.

Placer claims on federal land are up to 20 acres in area. They are usually 1,320 feet long and 660 feet wide, and cannot be longer than 1,320 feet. The claim may be oriented in any direction, and may have any number of bends. Boundary lines must be brushed out or otherwise well marked. Posts inscribed with specified information are required at each corner of the claim, each bend in the boundary line, and at the "discovery site". If this mineralization is associated with a linear feature such as a vein or paystreak, the claim should have that linear feature approximately at its longitudinal axis.

Two associated persons may stake an association placer claim on federal land. The claim may be up to 40 acres in area.

Stakers have up to 90 days in which to record claims staked on federal land. Claims must be recorded at the Bureau of Land Management in the state office having jurisdiction over the federal land on which the claims are situated. They must also be recorded at the office of the Deputy Magistrate of the recording district in which the claims are situated. In addition, claimants on National Forest land must file a copy of their location notice with the District Ranger's office.

Assessment work totalling $100.00 per year for each claim must be carried out. On association claims, the work requirement is $100.00 per year for each 20 acres or part thereof. Work done on one claim may be applied to other claims if all are part of the same contiguous group. The deadline for completion of the work each year is September 1, at noon. An affidavit of the work must be filed with the Recorder of the district in which the claim is located. In addition, a copy of the affidavit must be filed with the Bureau of Land Management in the state office having jurisdiction over the federal land on which the claim is situated. If the affidavit indicates a technical survey of any type was done, a detailed report on the survey must also be submitted to the Bureau of Land Management.

Placer claims may also be staked on land of rather insecure status known as "State selected land". State selected land is federal land for which the state has applied as part of its statehood entitlement. The land is closed to federal claim staking. Although it is not yet owned by the State, it may be staked under state law at the staker's own risk. The federal government may restrict or deny access to claims on state selected land, thus preventing claim-holders from carrying out their required assessment work. Further, the claim-holder will lose all rights to the claim if it lies on land to which the state never gets title.

Regulations Governing Mining: Regulations of the state Departments of Environmental Conservation, Fish and Game, Natural Resources, and Revenue apply to placer mines in Alaska. Regulations of the federal Bureau of Land Management, Environmental Protection Agency, Forest Service, Park Service, Fish and Wildlife Service, Military, and Army Corps of Engineers may also apply. Which regulations are applicable is determined by which agencies hold the land where the mine is situated, and which hold the land crossed to gain access to the mine.

Any mining operation in Alaska must obtain a license from the Department of Revenue before work is begun. License holders are subject to annual state taxes.

A Miscellaneous Land Use permit must be obtained from the state Department of Natural Resources before state land may be crossed, and before mining may be undertaken on claims on state land. If federal land is to be crossed, or if mining is to be undertaken on federal land, the Miscellaneous Land Use permits must be

obtained from the federal Bureau of Land Management before any activities are begun. If land held by other federal agencies is involved in planned activities, appropriate permits must also be obtained from those agencies.

Water use is regulated by the state Division of Land and Water Management. No water may be used without a Water Use permit. Water Use permits list the amount of water which may be taken, and specify sources from which it may be taken.

A Habitat Protection Permit from the state Department of Fish and Game must also be obtained for operations on both state and federal land. This permit lists restrictions on modes of water intake, mining, equipment use, and tailings disposal.

A Wastewater Discharge permit must be obtained from the state Department of Environmental Conservation for mining operations on both state and federal land. The permit indicates allowable contents of settleable solids and turbidity of wastewater discharges. A second wastewater discharge (NPDES) permit must be obtained from the federal Environmental Protection Agency for mining operations on both state and federal land.

In an attempt to reduce confusion resulting from the plethora of permits required by state and federal agencies, the state Division of Lands and Water Management, a branch of the Department of Natural Resources, has prepared a comprehensive application form familiarily called the "Tri-Agency" form. Completed application forms contain sufficient information to allow decisions to be made regarding granting all the aforementioned state and federal permits. The state Division of Lands and Water Management circulates the form to all the agencies, whether the planned activities are to occur on state or federal land. It is suggested that completed permit application forms, which are required annually, be submitted prior to February 15 each year to ensure issuance of all permits before the planned start of field operations.

Other permits which may be necessary for certain operations, including permits issued by the U.S. Army Corps of Engineers, and the state Division of Parks are not covered by the "Tri-Agency" form. Application for those permits must be made separately.

Further information may be obtained from:

Department of Natural Resources
323 East 4th
Pouch 7-005
Anchorage, Alaska, U.S.A.
99510

or from:

Department of Environmental Conservation
338 Denali, Room 1206
Anchorage, Alaska, U.S.A.
99501

YUKON CREEKS ON WHICH BASELINE SURVEYS HAVE BEEN DONE

Stream	Tributary to	Date	Surveyor	Field Book	Plan	Microplan
Adams Creek	Bonanza Creek	1901	McPherson		12066	2796
Agate Creek	Barker Creek	1906	Gibbon	19600	34670	3899-902
Alberta Creek	Walhalla Creek	1912	Kitto	19603	34676	2476
Allgold Creek	Klondike River	1902	Gibbon	30336-39	9824	2809
American Gulch	Bonanza Creek	1901	McPherson		12069	2795
Back Creek	Nisling River	1912	Dickson	12875	20050	2001
Barker Creek	Stewart River	1906	Gibbon	19600	34669-70	2477,3899-02
Barlow Creek	Clear Creek	1913	Kitto	19598	34673	2517
Barney Pup	Clear Creek	1905	Gibbon	11996	18089	3043-44
Battleford (Edmonton) Creek	Mayo Creek	1904	McPherson		11490	3414
Bear Creek	Klondike River	1902	Gibbon	30329-33	9825	2810
Bedrock Creek	Sixtymile River	1907	Gibbon	11680	17241	2454-56
Belcher Gulch	Klondike River	1907	Gibbon	11683	17319	2794
Beliveau Creek	Duncan Creek	1903	Rinfret		10178	3447
Big Gold Creek	Sixtymile River	1907	Gibbon	11681	17241	2454-6
Bismark Creek	Montana Creek	1902	McPherson	30314-18	10179	2483-84
Black Creek	Montana Creek	1902	McPherson	30315,17	10179	2483-84
Black Hills Creek	Stewart River	1901	Gibbon	11994	9542	2485-86
Black Hills Creek	Stewart River	1908	Gibbon	11994-95	18090	2453
Blueberry Creek	Thistle Creek	1902	McPherson	30324	10390	2457-58
Bonanza Creek	Klondike River	1897	Ogilvie		8284	3865
Bonanza Creek	Klondike River	1901	McPherson		10285	2799
Bonanza Creek	Klondike River	1901	McPherson		10294	2800
Bonanza Creek	Klondike River	1933	Dickson	21750		7567-78
Bonanza Creek	Klondike River	1971	McDonald		58479	
Bonanza Creek	Klondike River	1979	Brennan		67118	9841
Bonanza Creek	Klondike River	1981	Aucoin		68163	3687
Boucher Creek	Sixtymile River	1902	Cautley		9558	7707
Boulder Creek	Bonanza Creek	1898	Gibbon		9603	2818
Bourdeleau (37) Gulch	Hunker Creek	1902	Cautley		9558	7707
Box Creek	Steele River	1902	McPherson	30314	10179	
Bullion Creek	Slims River	1904	Dickson	7856		7757

Burwash Creek	Kluane River	1906	Dickson	9092	12759-61	1702-3, 2819
Butler Gulch	Boucher Creek	1902	Cautley		9558	7707
Cabin Creek	Nansen Creek	1912	Dickson	12875	20053	1712-13
California Gulch	Bonanza Creek	1902	McPherson	30315-17	10179	2483-84
California Creek	Sixtymile River	1914	Kitto		34674	2753-84
Caribou Creek	Dominion Creek	1904	Gibbon	7857		7710-11
Cascade Creek	Mayo Lake	1904	McPherson		11491	2561
Center Creek	Nisling River	1912	Dickson	12875	20053	1712-13
Childs Gulch	Black Hills Creek	1908	Gibbon	11995	18090	2453
Christal Creek	McQuesten River	1903	McPherson		10239	3417
Clarke Creek	Scroggie Creek	1912	Kitto	19603-04	34676	3476
Clear Creek	Stewart River	1905	Gibbon	11996	18089, 91	3052-3/3043-4
Clear Creek	Stewart River	1913	Kitto	19598	34673	
Conglomerate Creek	Montana Creek	1902	McPherson	30314,16,18	10179	2483-84
Cottoneva Creek	S. Big Salmon River	1902	McPherson	30346	10359	1726
Courtland Creek	Nansen Creek	1912	Dickson	12875	20053	1712-13
Dago Gulch	Hunker Creek	1907	Green	9102		2822
Dion Gulch	Yukon River	1908	McPherson	11657		7748
Discovery Gulch	Black Hills Creek	1908	Gibbon	11994	18090	2453
Dolly Creek	Nansen Creek	1912	Dickson	12875	20053	1712-13
Dome Creek	Nisling River	1912	Dickson	12875	20053	2001
Dominion Creek	Indian River	1900	Cote		9172	4643
Dominion Creek	Indian River	1902	Gibbon	30331,3	10180	2770
Dominion Creek	Indian River	1918	Hawkins	15614		2813
Dominion Creek	Indian River	1981	Welter		68166	3688
Dublin Gulch	Haggart Creek	1903	McPherson		10289	3054
Dublin Gulch	Haggart Creek	1980	Parnell			
Duncan Creek	Mayo River	1903	McPherson		10177	3418
Duncan Creek	Mayo River	1903	Rinfret		10178	3447
Duncan Creek	Mayo River	1903	Barwell		58577	
Edmonton (Battleford) Creek	Mayo Lake	1904	McPherson		11490	3414
Eight Pup	Mayo Lake	1901	Gibbon		9608,9613	2802,7
Eighty Pup	Hunker Creek	1901	Gibbon		9609	2803
Eldorado Creek	Bonanza Creek	1901	McPherson		9614-15	2808
Eldorado Creek	Bonanza Creek	1901	McPherson		9604	2873-74
Eldorado Creek	Bonanza Creek	1905	Gibbon	11996	18091	3052,53

Stream	Tributary to	Date	Surveyor	Field Book	Plan	Microplan
Eldorado Creek	Bonanza Creek	1933	Dickson	21750	39900	
Eldorado Creek	Bonanza Creek	1982	Aucoin			
Eliza Creek	Nansen Creek	1912	Dickson	12875	20052	2001
Eureka Creek	Indian River	1902	McPherson	7855		7709
Eureka Creek	Indian River	1902	McPherson		55028	7708
Eureka Creek	Indian River	1902	McPherson	30335	10614	2482
Eureka Creek	Indian River	1900	Cote		9394	2827-8
Examiner Gulch	Bonanza Creek	1908	McPherson	11657		7748
Falconer Gulch	Yukon River	1908	McPherson	11657		7748
Fifteen Pup	Last Chance Creek	1901	Gibbon		9613	2807
Fifty-one Pup	Barker Creek	1906	Gibbon	19600	34669	2477
Fish Creek	Klondike River	1903	Gibbon	7858	11494	2801
Fisher Creek	Montana Creek	1902	McPherson	30315	10179	2483-84
Five Mile Creek	Sixtymile River	1914	Kitto	19598	34674	2753-54
Flat Creek	Klondike River	1904	Gibbon	7857		7710-11
Forty Pup	Duncan Creek	1903	McPherson		10177	3418
Fourth of July Creek	Jarvis River	1913	Dickson	19598	34666-68	1863-64
Fox Gulch	Bonanza Creek	1901	McPherson		12069	2795
French Gulch	Eldorado Creek	1901	McPherson		9615	2808
Gay Gulch	Eldorado Creek	1901	McPherson		9614	2808
Gauvin Gulch	Bonanza Creek	1901	McPherson		12067	2796
Glacier Creek	Sixtymile River	1901	Dumais	9545		4443
Glacier Creek	Sixtymile River	1907	Gibbon	11681	17241	2454-56
Gold Bottom Creek	Hunker Creek	1901	Gibbon		9612	2805-6
Gold Run Creek	Dominion Creek	1902	McPherson	30334	10181	2797-98
Gold Run Creek	Dominion Creek	1981	Welter		68166	3688
Goring Creek	Klondike River	1910	McPherson	11659		7560
Granite Gulch	Boucher Creek	1902	Cautley		9558	7707
Guysboro Gulch	Klondike River	1907	Gibbon	11683	17319	2794
Haggart Creek	McQuesten River	1903	McPherson		10289	3054
Haggart Creek	McQuesten River	1980	Parnell			
Hattie Gulch	Hunker Creek	1907	Gibbon	11683	17319	2794
Henry Gulch	Hunker Creek	1901	Gibbon		9607	2802
Hester Creek	Hunker Creek	1901	Gibbon		9611	2804
Henderson Creek	Yukon River	1901	Gibbon		9542	2485-86
Highet Creek	Minto Creek	1904	McPherson		11489	3055
Hodgen Creek	Montana Creek	1902	McPherson	30314-15	10179	2483-84
Homestake Gulch	Bonanza Creek	1901	McPherson		9847	2811

Hunker Creek					
Hunker Creek					
Hunker Creek					
Hunker Creek					
Hunker Creek					
Hunker Creek					
Hunker Creek					
Huot Gulch					
Indian River					
Indian River					
Indian River					
Indian River					
Indian River					
Indian River					
Iron Creek					
Isaacs Gulch					
Italian Creek					
Jackson Gulch					
Jarvis River					
Jones Gulch					
Keystone Creek					
Kitchener Creek					
Klondike River					
Klondike River					
Lake Creek					
Last Chance Creek					
Ledge Creek					
Lepine Creek					
Lightning Creek					
Lightning Creek					
Lindow Creek					
Lion Gulch					
Little Blanche Creek					
	Klondike River	1901	Gibbon		9606,7,11
	Klondike River	1902	Gibbon	30331	10180
	Klondike River	1977	Koepke		65451
	Klondike River	1902	Gibbon		8636,9824
	Klondike River	1967	Holt		53536
	Klondike River	1980	Aucoin		67557
	Klondike River	1982	Aucoin		
	Boucher Creek	1902	Cautley		9558
	Yukon River	1900	Cote		9172
	Yukon River	1934	Dickson	21911	39217-18
	Yukon River	1936	Dickson	22085	39321-22
	Yukon River	1938	Dickson	24271	
	Yukon River	1981	Koepke		
	Yukon River	1981	Welter		68166
	Barker Creek	1906	Gibbon	19600	34669-70
	Flat Creek	1904	Gibbon	7857	
	Montana Creek	1902	McPherson	30315,17	10179
	Klondike River	1980	Aucoin		67132
	Kaskawulsh River	1913	Dickson	19598	34666-68
	Black Hills Creek	1908	Gibbon	11995	18090
	Mayo Lake	1903	McPherson		10240
	Steele River	1902	McPherson	30314	10179
	Yukon River	1902	White-Fraser	(part of B/L only)	54370
	Yukon River	1980	Aucoin		67133
	S. Big Salmon River	1902	McPherson	30346	10359
	Hunker Creek	1901	Gibbon	30331	9605,8,10,13
	Mayo Lake	1904	McPherson		11492
	Rock River	1903	Gibbon	7858,30350	11494
	Duncan Creek	1903	McPherson		10177(55071)
	Duncan Creek	1903	Barwell		58577
	Bear Creek	1902	Gibbon	30329,32,33	9825
	Caribou Creek	1904	Gibbon	7857	
	Quartz Creek	1909	McPherson	11660	

	2802-4
	2770
	9623
	2831-32,2809
	944
	7707
	4643
	2474-75
	692
	7987
	3688
	2477,3899-902
	7710-11
	2483-84
	9845
	1863-64
	2453
	3417
	2483-84
	9846
	1726
	2802,3,7
	2560
	2801,8018
	3418(7727)
	2810
	7710-11
	1425

Stream	Tributary to	Date	Surveyor	Field Book	Plan	Microplan
Little Skookum Gulch	Bonanza Creek	1901	McPherson		9847	2811
Livingstone Creek	S. Big Salmon River	1902	McPherson	30346	10359	1726
Lovett Gulch	Bonanza Creek	1901	McPherson		12069	2795
Lovett Gulch	Bonanza Creek	1980	Brennan		67265	mylar
Lucky Creek	Allgold Creek	1902	Gibbon		9824	2809
Magnet Gulch	Bonanza Creek	1901	McPherson		12069	
Mariposa Creek	Scroggie Creek	1912	Kitto	19604	34676	2476
McKay Gulch	Bonanza Creek	1901	McPherson		9847	2811
McRae Gulch	Highet Creek	1904	McPherson		11489	3055
McRae Gulch	Highet Creek	1906	Gibbon	19600	34669-70	2477,3899-902
Miller Creek	Sixtymile River	1909	McPherson	11658		7436
Miller Creek	Sixtymile River	1981	Aucoin		67918	2463
Mint Gulch	Hunker Creek	1901	Gibbon		9606	2802
Minto Creek	Mayo River	1912,14	Kitto	17622	31763,65	3041-42
Montana Creek	Indian River	1902	McPherson	30314-16	10179	2482-84
Moose Creek	Fortymile River	1907	Gibbon	9545		4443
Nansen Creek	Nisling River	1912	Dickson	12875	20051-53	2001,1712-14
Nelson Gulch	Sixtymile River	1902	Cautley		9558	7707
Newbauer Creek	Nisling River	1912	Dickson	12875	20053	1712-13
Nigger Jim Gulch	Bonanza Creek	1901	McPherson		9847	2811
Nineteen Pup	Bonanza Creek	1901	McPherson		9847	2811
No Name Creek	Montana Creek	1902	McPherson	30314	10179	2483-84
Nugget Gulch	Eldorado Creek	1901	McPherson		9614	2808
O'Neill Gulch	Bonanza Creek	1901	McPherson		9847	2811
Parent Creek	Duncan Creek	1903	Rinfret		10178	3447
Preacher Creek	Barker Creek	1906	Gibbon	19600	34669-70	2477,3899-902
Quartz Creek	Indian River	1900	Cote		9172	4643
Quartz Creek	Indian River	1980	Welter		68165	mylar
Rabbit Gulch	Hunker Creek	1907	Gibbon	11683	17319	2794
Randler Gulch	Boucher Creek	1902	Cautley		9558	7707
Rudolph Gulch	Highet Creek	1904	McPherson		11489	3055
Rusk Creek	Nisling River	1912	Dickson	12875	2005	2001
Scroggie Creek	Stewart River	1912	Kitto	19603	34676	2476
Sharpe (Stevens) Creek	Scroggie Creek	1912	Kitto	19604	34676	2476
Shaw Creek	Nansen Creek	1912	Dickson	12875	20052	2001
Sixtymile River	Yukon River	1907	Gibbon	11680	17241	2454-56
Sixtymile River	Yukon River	1914	Dickson	19598	34663-65	2755-57
Sixtymile River	Yukon River	1914	Kitto	19598	34674	2753,54
Sixtymile River	Yukon River	1981	Aucoin		67918	2463

Skookum Gulch	Bonanza Creek	1901	McPherson		9847	2811
Slate Creek	Nansen Creek	1912	Dickson	12875	20049	2001
Sock (Rock) Creek	Klondike River	1903	Gibbon		11494	2801
Spring Gulch	Bonanza Creek	1901	McPherson		9847	2811
Steele River	Montana Creek	1902	McPherson	30314,16,17	10179	2483-84
Steep Creek	Mayo Lake	1904	McPherson		11493	3413
Stevens Creek	Scroggie Creek	1912	Kitto	19603	34676	2476
Stowe Creek	Montana Creek	1902	McPherson	30314,16	10179	2483-84
Sulphur Creek	Dominion Creek	1912	Kitto	12294	8599-600	7561
Summit Creek	S. Big Salmon River	1902	McPherson	30346	10359	1726
Summit Creek	Nisling River	1912	Dickson	12875	20053	1712-13
Tenmile Creek	Sixtymile River	1912	Kitto	19602	34675	2477
Thirteen Gulch	Eldorado Creek	1916	Brownlee	14861		2812
Thistle Creek	Yukon River	1902	McPherson	30323-24	10390	2457-58
Trail Gulch	Bonanza Creek	1901	McPherson		12069	2795
Twelvemile Creek	Sixtymile River	1914	Kitto	19598	34674	2753-54
Twenty Gulch	Hunker Creek	1907	Gibbon	11683	17319	2794
Twenty-one Gulch	Hunker Creek	1907	Gibbon	11683	17319	2794
Vermont Creek	Steele River	1902	McPherson	30318	10179	2483-84
Victoria Gulch	Bonanza Creek	1901	McPherson		12068	2796
Victoria Creek	Nisling River	1912	Dickson	12875	20048	1715
Webber Creek	Nansen Creek	1912	Dickson	12875	20053	1712-13
Walhalla Creek	Scroggie Creek	1912	Kitto	19604	34676	2476
Williams Creek	Duncan Creek	1903	McPherson		10177	3418
Williams Creek	Duncan Creek	1903	Rinfret		10178	3447

PLACER DISPOSITIONS IN YUKON

Placer staking activity in Yukon during the period 1978 to 1982 was at a much higher level than in many years previous to that period. Figure 1 shows the count of new leases staked in the territory each year from 1972 to 1982. Figure 2 shows the count of new leases staked in the territory each year from 1972 to 1982.

In addition to significant increases in the numbers of new placer claims and leases staked during the past five years, there have also been significant increases in the numbers of claims and leases maintained in good standing. Figure 3 shows the count of placer claims in good standing each month during the years 1978 to 1982.

The kilometers (miles) of placer leases in good standing each month during the years 1978 to 1982 are shown in Figure 4. The distance rather than the count was used in Figure 4 in order to provide the most meaningful information possible. As placer leases may be any distance up to 8 km (5 miles) long, the count of leases does not indicate the total length of the leases staked. Several groups of leases totalling several hundred km (miles) in length each were examined, and an average length of 3.6 km (2.25 miles) per lease was calculated. That number was used to prepare Figure 4.

Figure 5 includes the information shown in both Figures 3 and 4. The count of placer claims in good standing was converted to kilometers (miles) using an average length of 150.9 metres (495 feet) per claim. Figure 5 shows a rapid increase in the km (miles) of placer claims and leases in good standing from 1334 km (834 miles) in January 1978, to 5928 km (3705 miles) in December 1981. From December 1981, the number of claims and leases in good standing dropped to 4197 km (2623 miles) in December 1982.

The cause of the rapid increase in the counts of new claims and leases staked, and in the km (miles) of placer claims and leases in good standing is shown in Figure 6. The km (miles) of claims and leases in good standing increased gradually in 1978 and early 1979 along with the gradual increase in the price of gold. When the gold price increased dramatically in late 1979 and early 1980, the km (miles) of claims and leases jumped also.

The price of gold was obviously decreasing by early 1981. The km (miles) of claims and leases remained nearly constant until early 1982, but the counts of each type of disposition changed. From March to November 1981, the km (miles) of claims in good standing increased by 503 (805), while the km (miles) of leases in good standing decreased by 486 (778). Most of these changes resulted from the transfer to claims of placer leases acquired in the 1979 and 1980 rush to obtain property. From November 1981 to December 1982, the km (miles) of claims in good standing increased by only .6 km (.4 miles), while the km (miles) of leases in good standing decreased by 1732 (1082).

The price of gold had not risen sufficiently from its low in May, 1982 by December, 1982 to halt the decline in the km (miles) of placer dispositions maintained in good standing.

The distributions of staking activity, and of claims and leases in good standing across the mining districts in Yukon are indicated in the tables below. The counts each year are as of December 31.

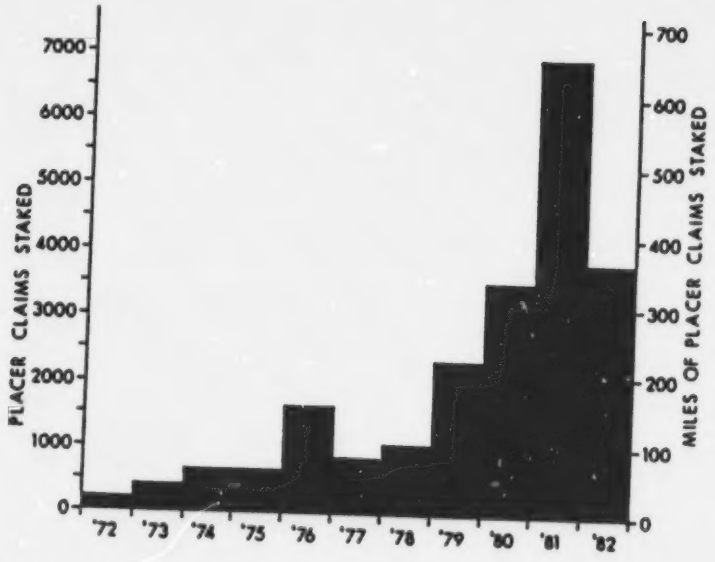


Figure 1: Count of placer claims staked in Yukon, 1972 to 1982.

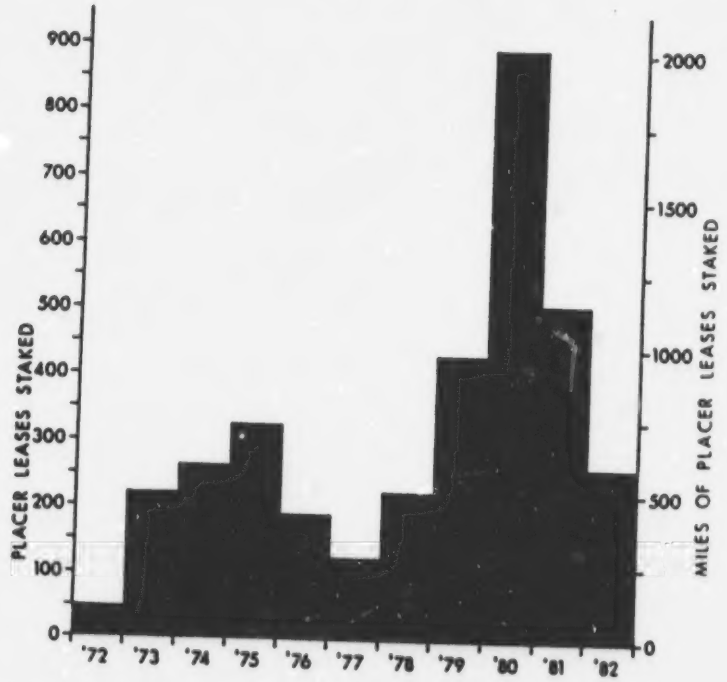


Figure 2: Count of placer leases staked in Yukon, 1972 to 1982.

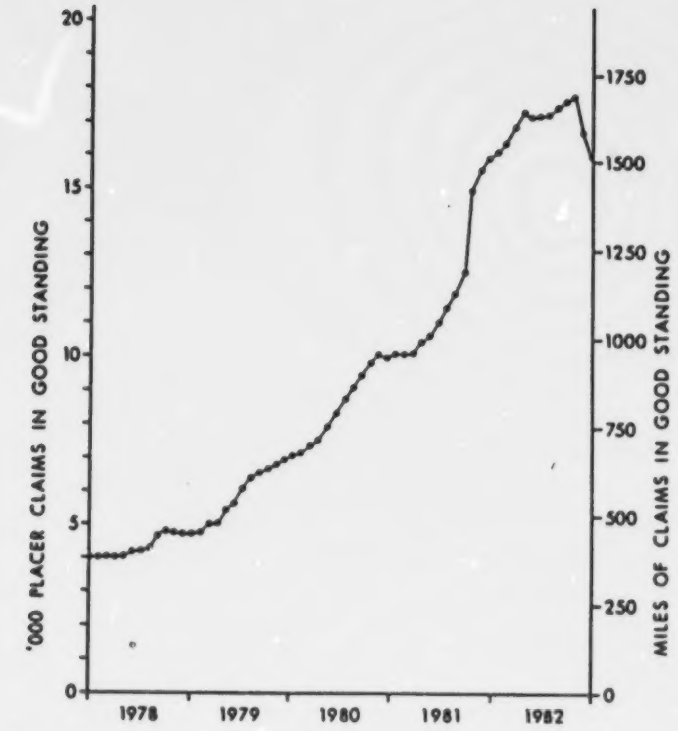


Figure 3: Count of placer claims in good standing, 1978 to 1982.

Figure 4: Kilometers (miles) of placer leases in good standing, 1978 to 1982.

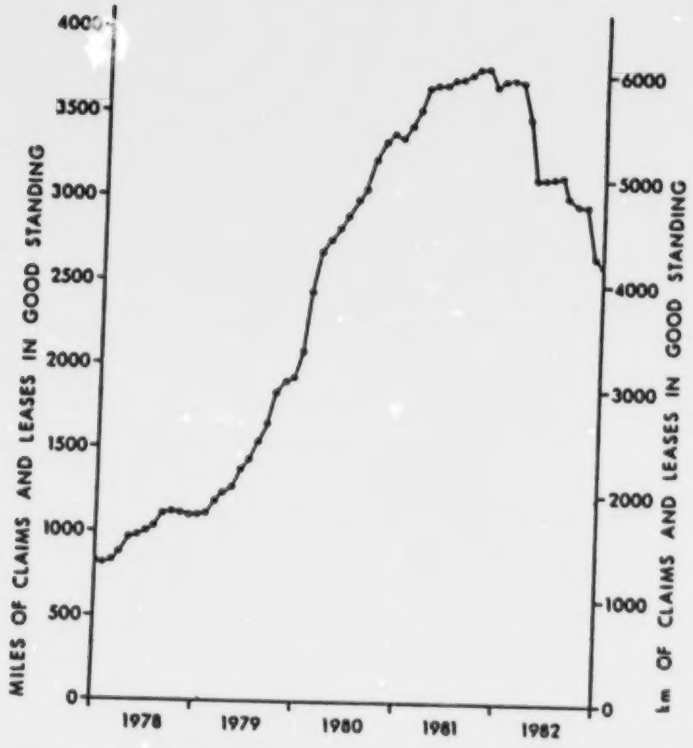


Figure 5: Kilometers (miles) of placer claims and leases in good standing, 1978 to 1982.

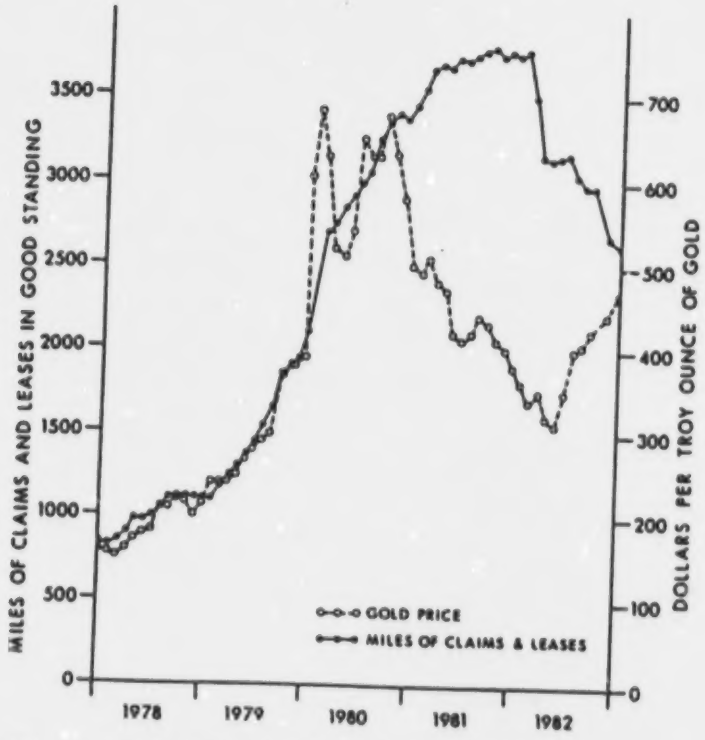


Figure 6: Kilometers (miles) of placer claims and leases in good standing, and the price per ounce of gold, 1978 to 1982.

COUNT OF PLACER CLAIMS IN YUKON, 1978 - 1982

Mining District	Claim Status	Year 1978	1979	1980	1981	1982
Dawson	New Staking	693	1976	2404	5314	2008
	Good Standing	3630	5476	7548	12320	11077
Mayo	New Staking	272	208	376	572	674
	Good Standing	527	734	1137	1595	2137
Watson Lake	New Staking	2	6	113	42	65
	Good Standing	42	15	106	83	80
Whitehorse	New Staking	80	156	646	1050	1149
	Good Standing	557	680	1190	1951	2660
Total	New Staking	1047	2346	3558	6978	3896
	Good Standing	4756	6905	9981	15949	15954

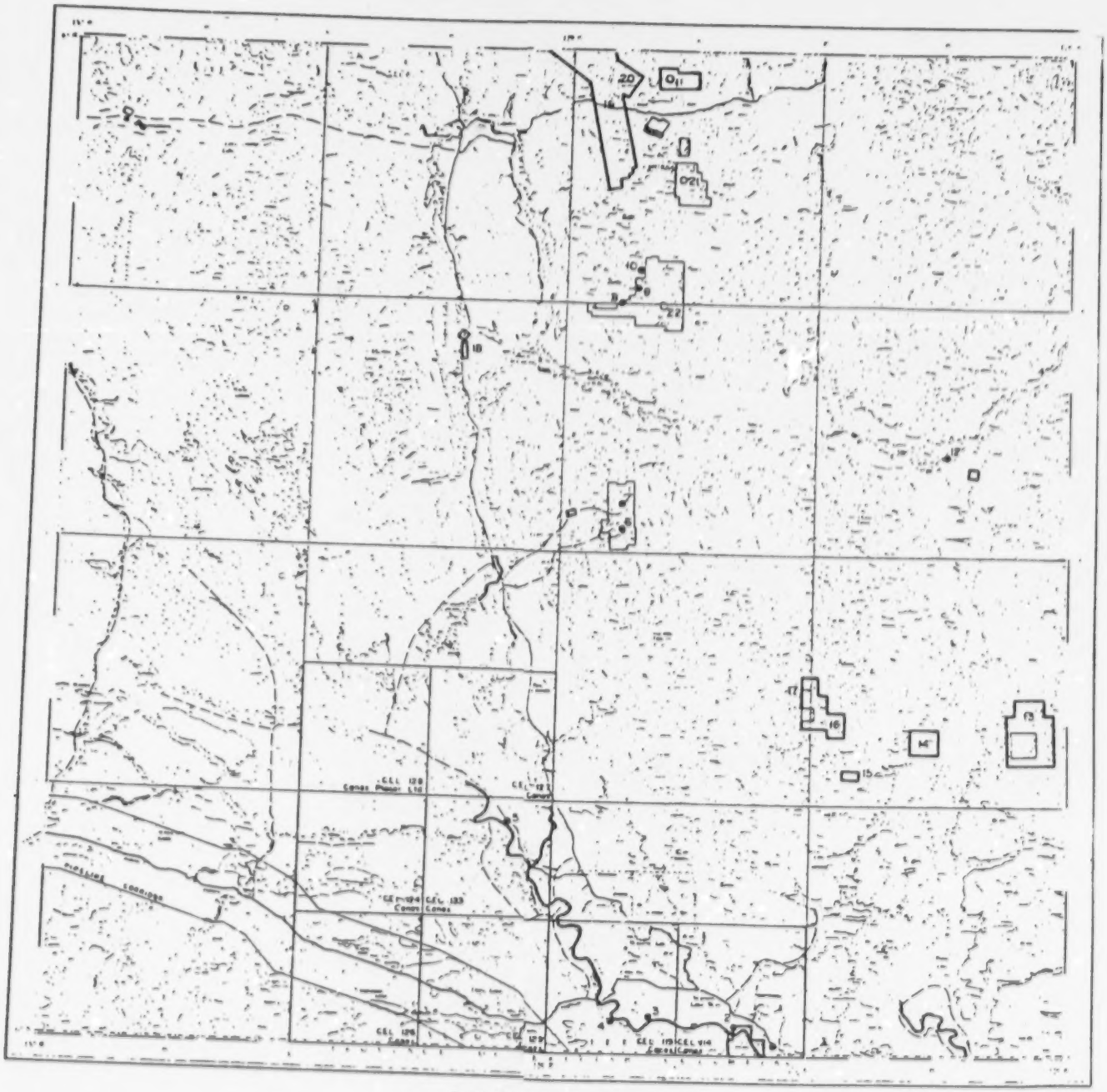
COUNT OF PLACER LEASES IN YUKON, 1978 - 1982

Mining District	Claim Status	Year 1978	1979	1980	1981	1982
Dawson	New Staking	120	234	460	276	145
	Good Standing	158	304	591	532	349
Mayo	New Staking	48	73	157	80	21
	Good Standing	66	102	137	115	37
Watson Lake	New Staking	13	36	47	12	24
	Good Standing	14	43	66	28	34
Whitehorse	New Staking	44	89	231	142	71
	Good Standing	52	121	282	306	80
Total	New Staking	225	432	895	510	261
	Good Standing	290	570	1076	981	500

The locations of placer dispositions across Yukon in January 1981 are shown on the following maps. Such dispositions occur on 21 ot the 44 maps of Yukon published at a scale of 1:250,000. These maps were taken from "Yukon Geology and Exploration, 1979-1980" published by D.I.A.N.D. Some maps show lode claims as well as placer claims and leases. Numbered dots indicate lode mineral occurrences. They are not discussed in this report. The maps are organized in numeric and then alphabetic order according to their N.T.S. classification.

Maps showing placer dispositions across Yukon in January 1982 will appear in the report "Yukon Geology and Exploration, 1981" which is to be released in March, 1983. Maps showing placer dispositions across Yukon in January 1983 are being prepared for release in the report "Yukon Placer Mining Industry, 1978-1982" which is to be released during the summer of 1983. Both the maps in this report, and those in "Yukon Geology and Exploration, 1981" show more dispositions than will appear on the maps in "Yukon Placer Mining Industry, 1978-1982". It is expected, however, that should additional placer dispositions be taken up in future, areas shown on the maps in this report which have since lapsed will be among the first to be staked.

Figure 7: Index map to N.T.S. areas in Yukon. Areas in which placer dispositions occur are shaded.



WATSON LAKE

YUKON TERRITORY

105 A

Mineral Deposit or Occurrence

Unmineralized Target

Mineral Claims in good standing (Jan 1981) and staked before Jan 1980

Mineral Claims staked in 1980

Placer Leases in good standing (Jan 1981)

Placer Claims in good standing (Jan 1981)

CEL Coal Exploration Lease

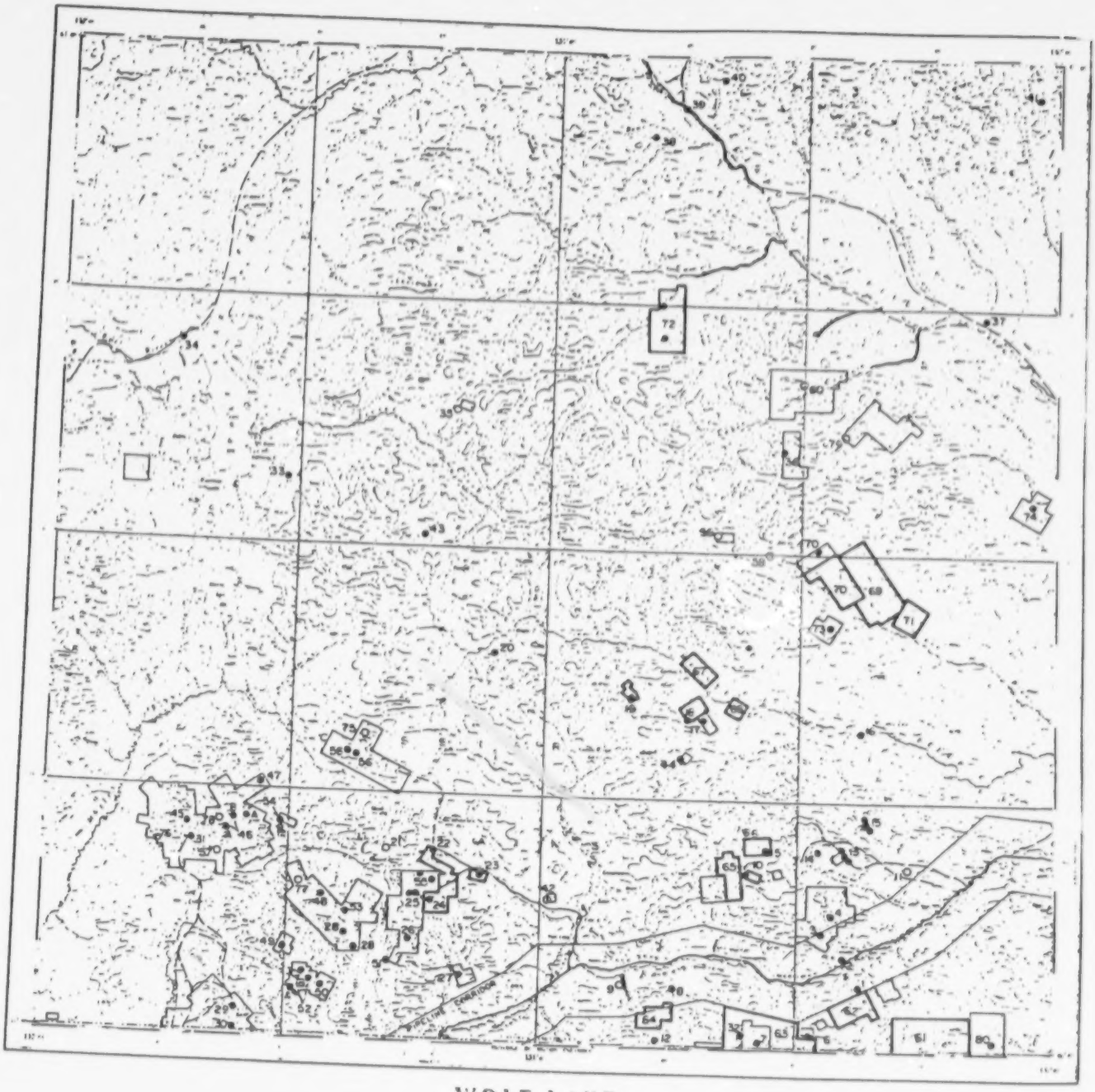
CML Coal Mining Lease

Tote Trail

Driveable Road

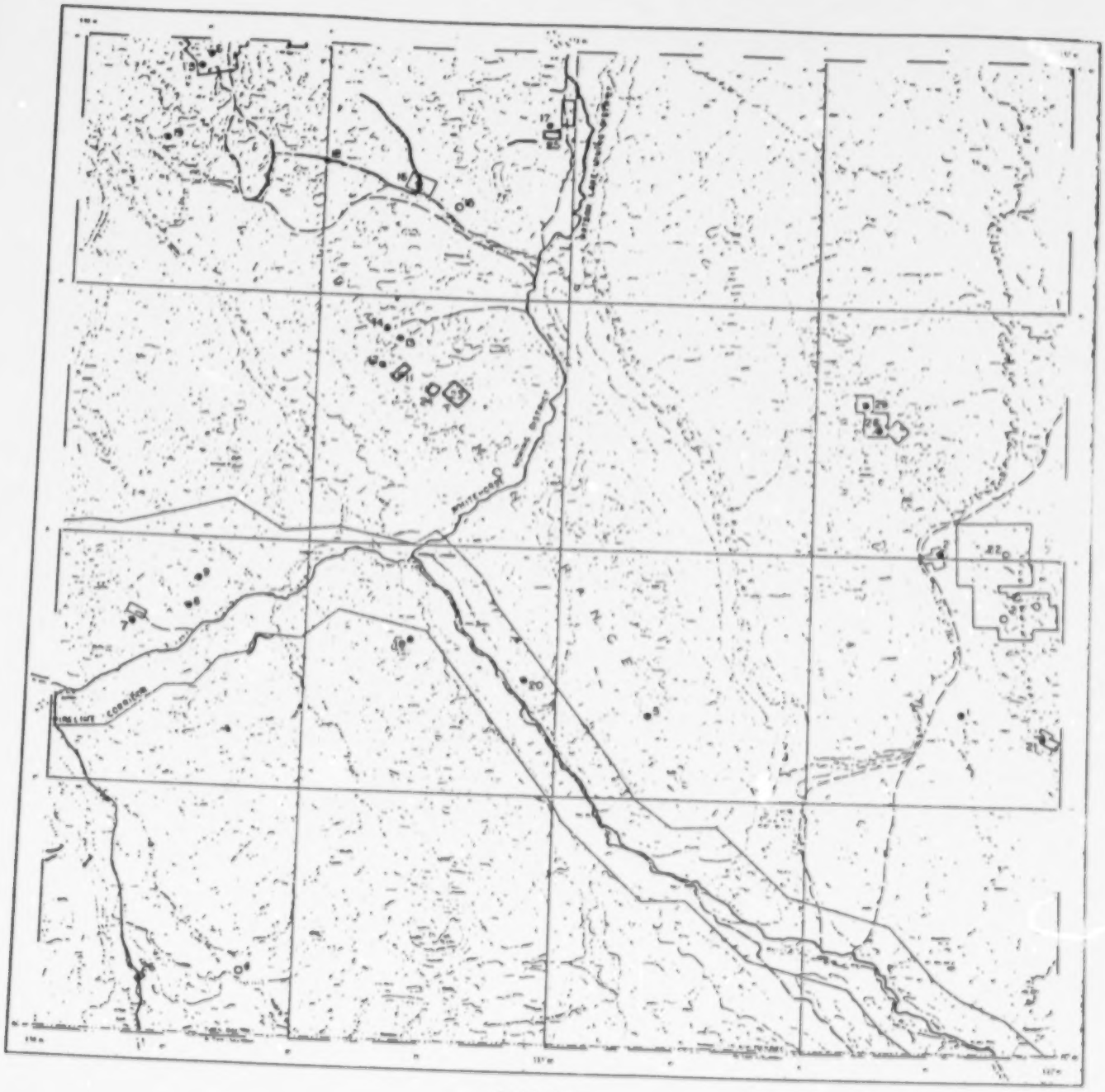
Oil or Gas Well

Airstrip



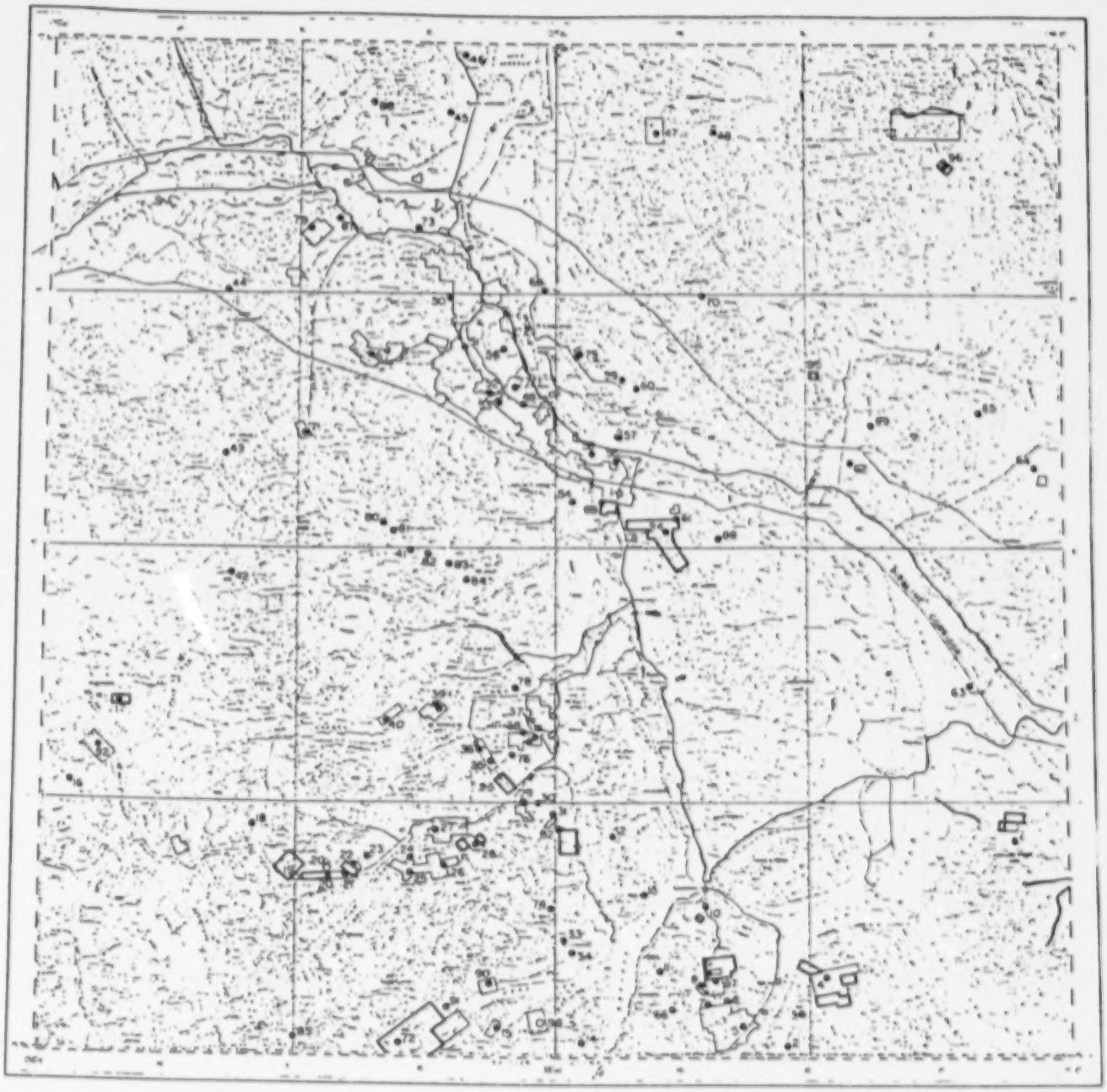
WOLF LAKE
YUKON TERRITORY

105 B



TESLIN
YUKON TERRITORY

105 C



WHITEHORSE

YUKON TERRITORY

105 D

Mineral Deposit or Occurrence

Uncommercial Target

Mineral Claims in good standing (Jan 1981) and staked before Jan 1980

Mineral Claims staked in 1980

Placer Leases in good standing (Jan 1981)

Placer Claims in good standing (Jan 1981)

Coal Exploration Lease

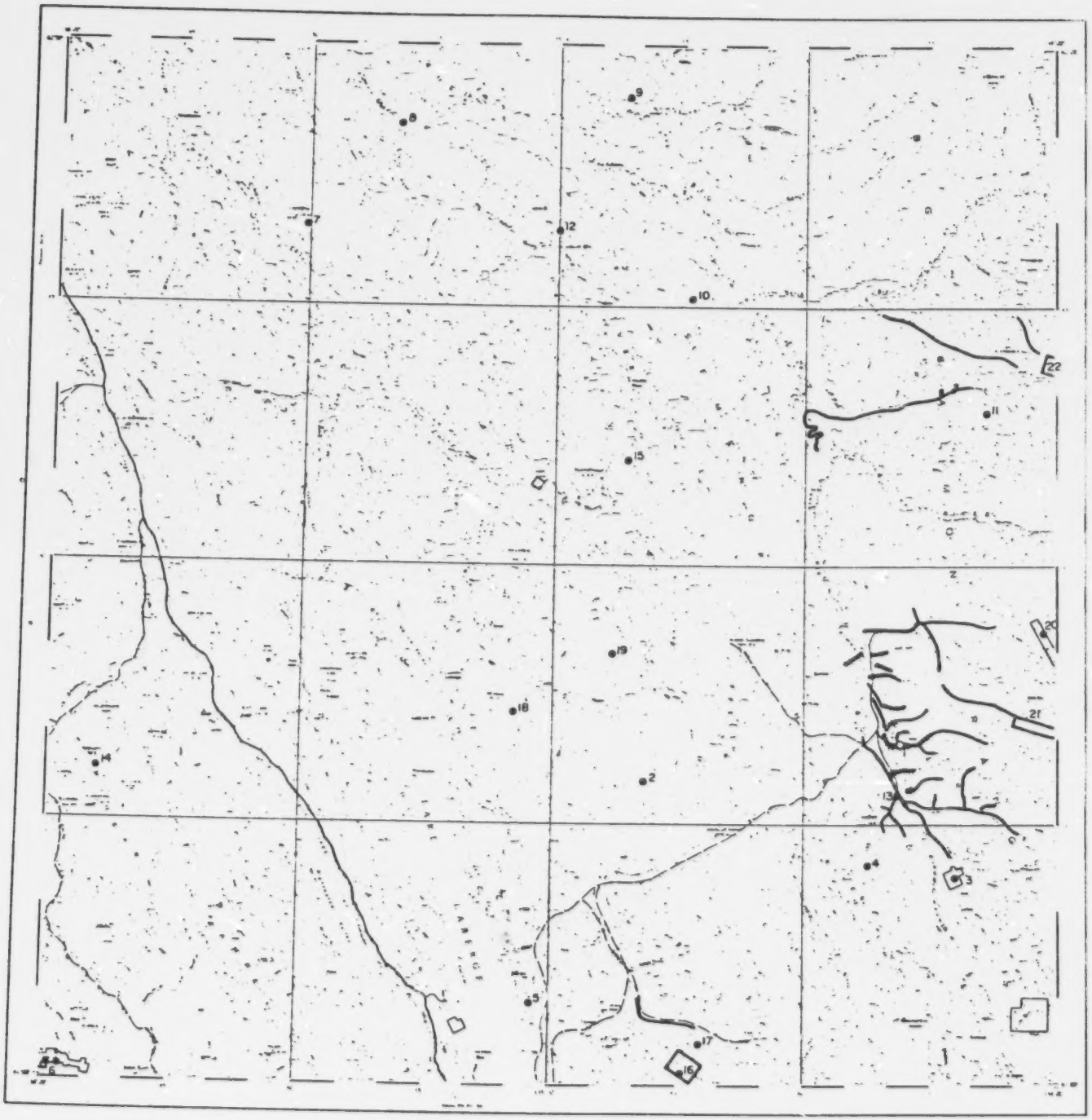
Coal Mining Lease

Trail

Dirt or Gravel Road

Oil or Gas Well

Airstrip



LABERGE

YUKON TERRITORY

105 E

Mineral Deposit or Occurrence

Uninvestigated Target

Mineral Claims in good standing (Jan 1981) and staked before Jan 1980

Mineral Claims staked in 1980

Placer Leases in good standing (Jan 1981)

Placer Claims in good standing (Jan 1981)

CEL Coal Exploration Lease

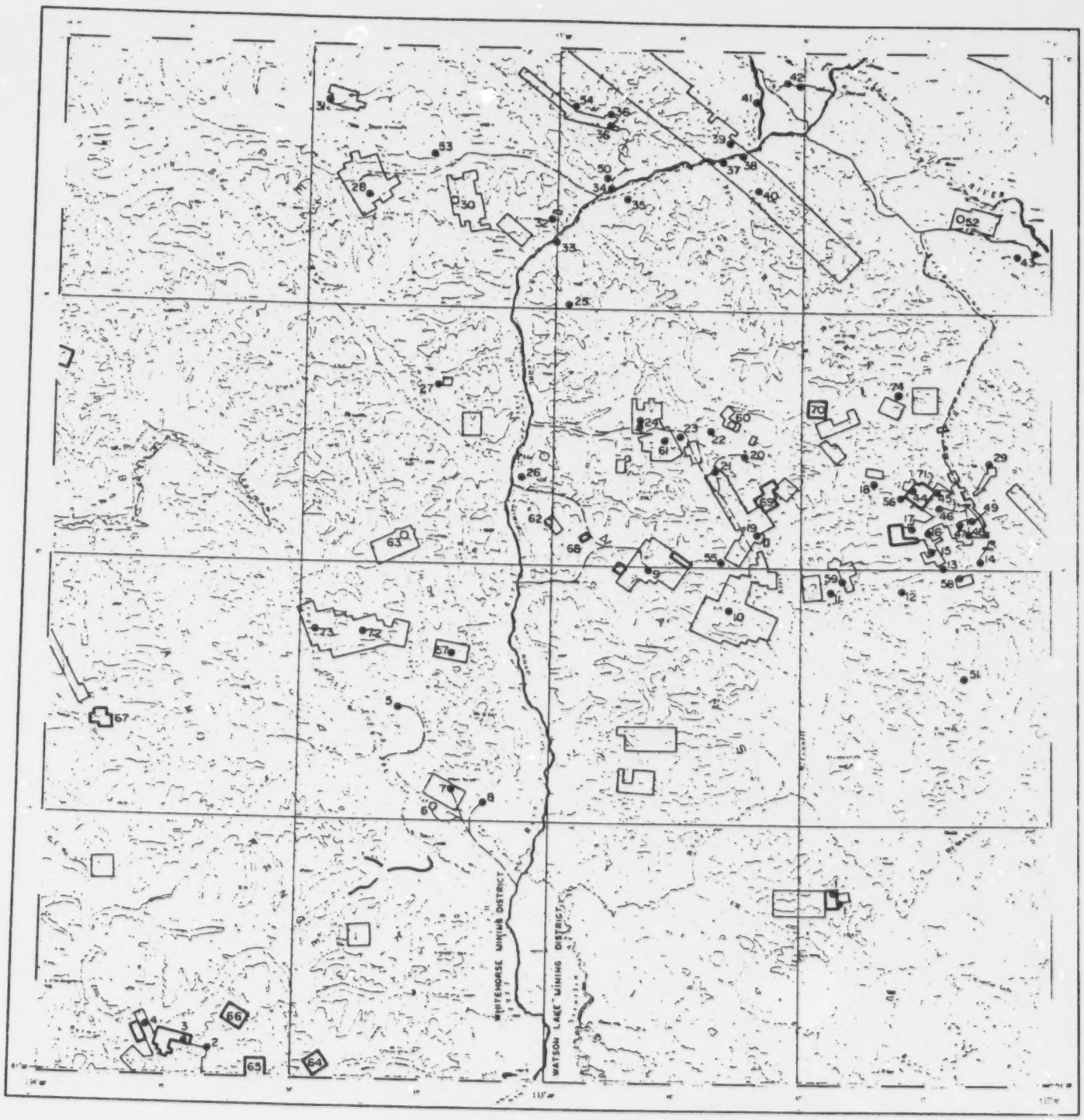
CML Coal Mining Lease

Tote Trail

Drivable Road

Oil or Gas Well

Airstrip



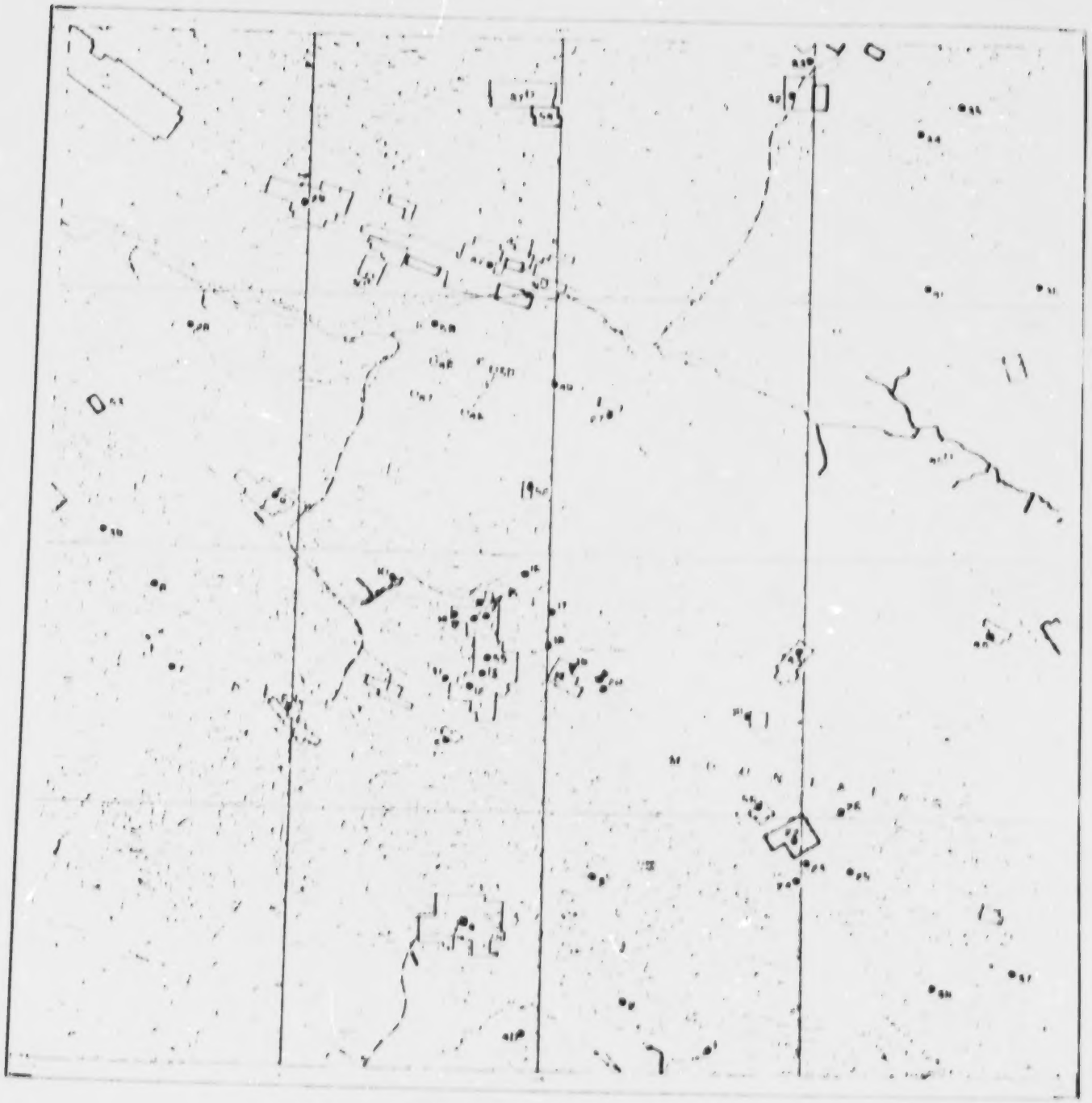
QUIET LAKE

YUKON TERRITORY

105 F

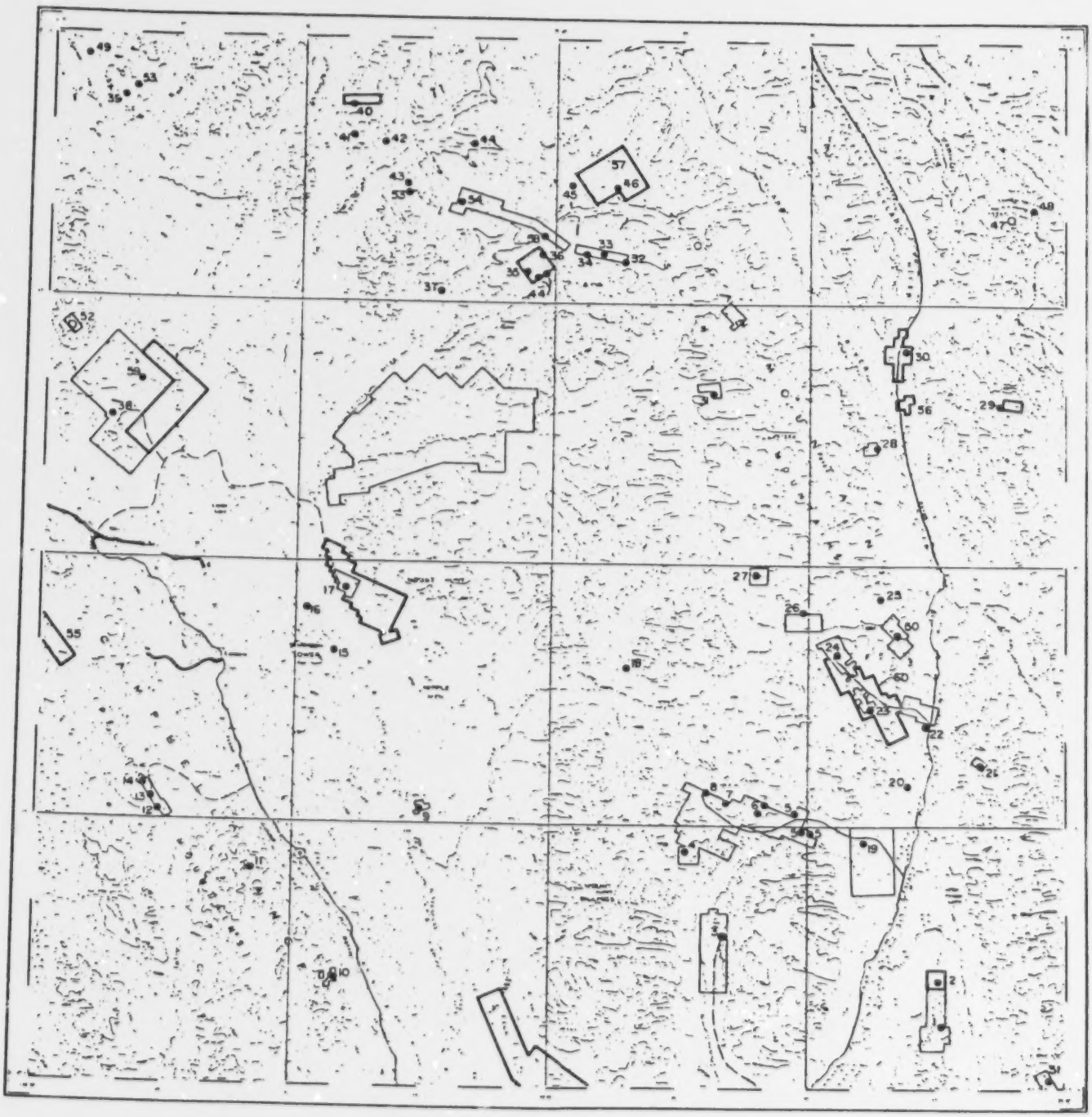
Kilometres 0 5 10 15 20 25 30

- ●61 ..... Mineral Deposit or Occurrence
- O72 ..... Unmineralized Target
- Mineral Claims in good standing (Jan 1981) and staked before Jan 1980
- Mineral Claims staked in 1980
- Placer Leases in good standing (Jan 1981)
- Placer Claims in good standing (Jan 1981)
- CEL ..... Coal Exploration Lease
- CML ..... Coal Mining Lease
- Tote Trail
- Driveable Road
- ◇ ..... Oil or Gas Well
- Airstrip



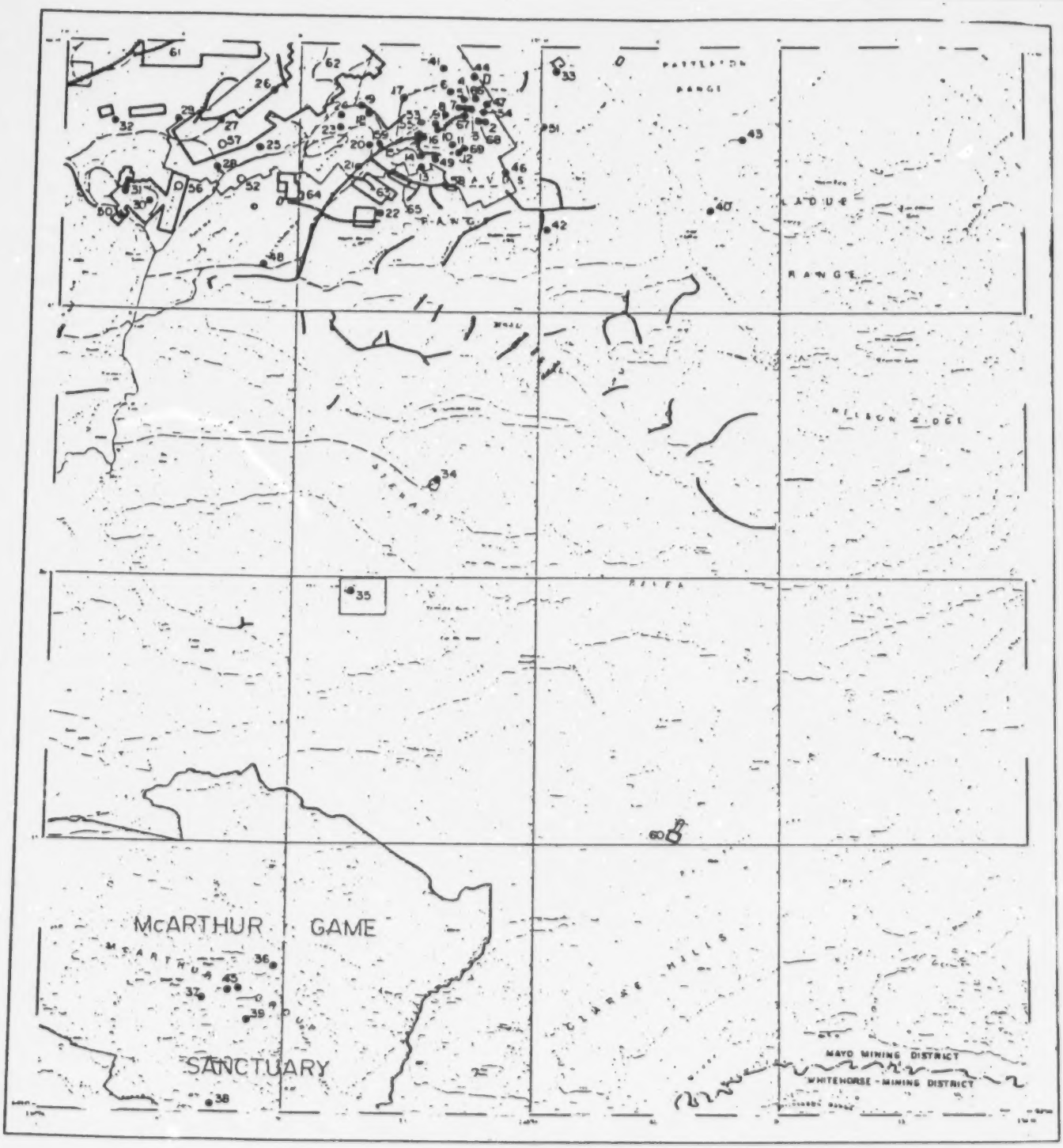
FINLAYSON LAKE

106.G



FRANCES LAKE
YUKON TERR.–NORTHWEST TERR.
105 H

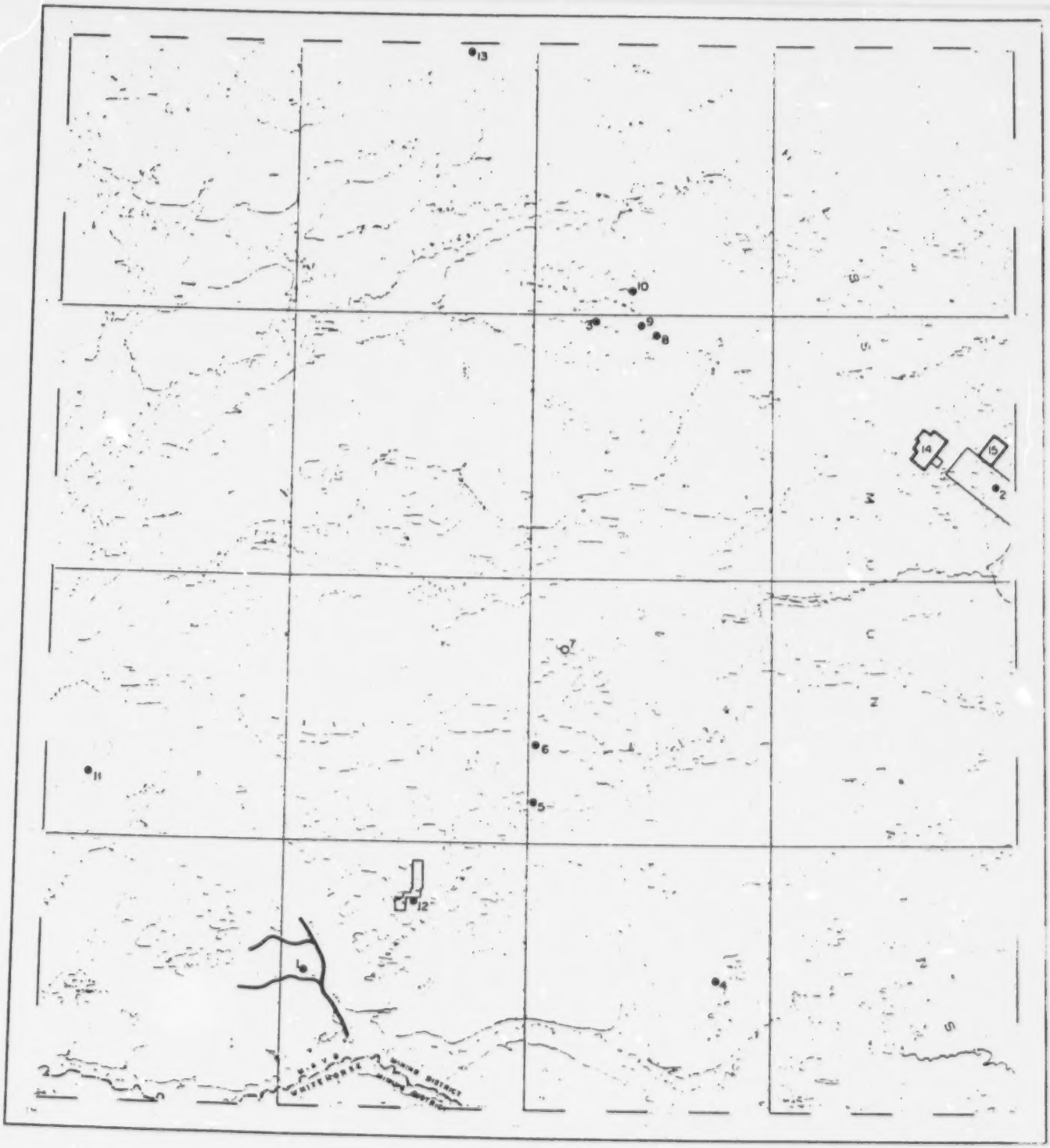
Mineral Deposit or Occurrence
Uneconomic Target
Mineral Claims in good standing (Jan 1981) and staked before Jan 1980
Mineral Claims staked in 1980
Placer Leases in good standing (Jan 1981)
Placer Claims in good standing (Jan 1981)
Coal Exploration Lease
Coal Mining Lease
Tote Trail
Driveable Road
Oil or Gas Well
Airstrip



MAYO
YUKON TERRITORY

105 M

Mineral Deposit or Occurrence
Unmineralized Target
Mineral Claims in good standing (Jan 1981) and staked before Jan 1980
Mineral Claims staked in 1980
Placer Leases in good standing (Jan 1981)
Placer Claims in good standing (Jan 1981)
CEL ..... Coal Exploration Lease
CML ..... Coal Mining Lease
Tote Trail
Dirtroad Road
Oil or Gas Well
Airstrip

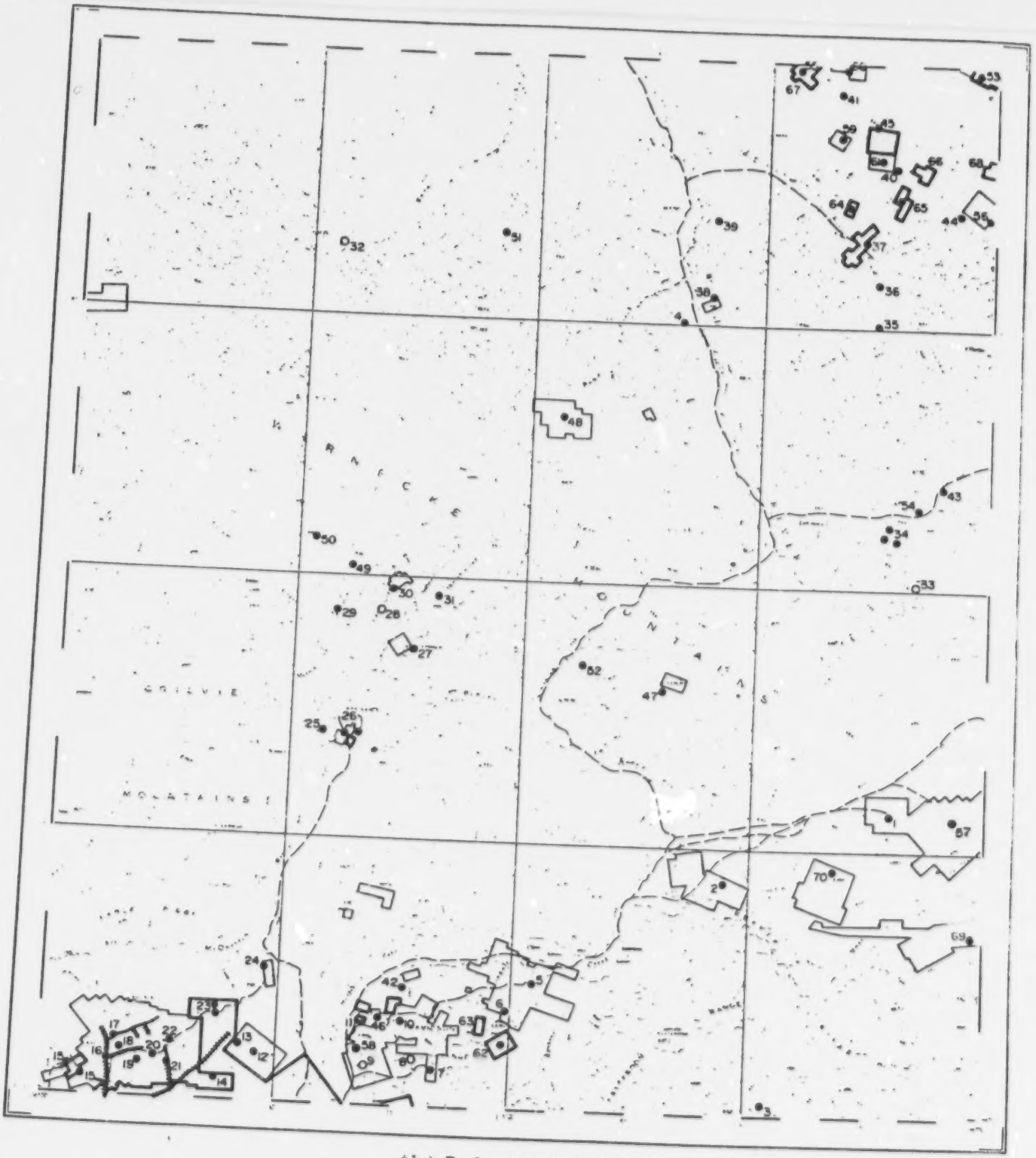


LANSING

YUKON TERRITORY

105 N

●61	Mineral Deposit or Occurrence		Placer Leases in good standing (Jan 1981)		Tote Trail
O72	Unmineralized Target		Placer Claims in good standing (Jan 1981)		Driveable Road
	Mineral Claims in good standing (Jan 1981) and staked before Jan 1980	CEL	Coal Exploration Lease	◇	Oil or Gas Well
	Mineral Claims staked in 1980	CML	Coal Mining Lease		Airstrip



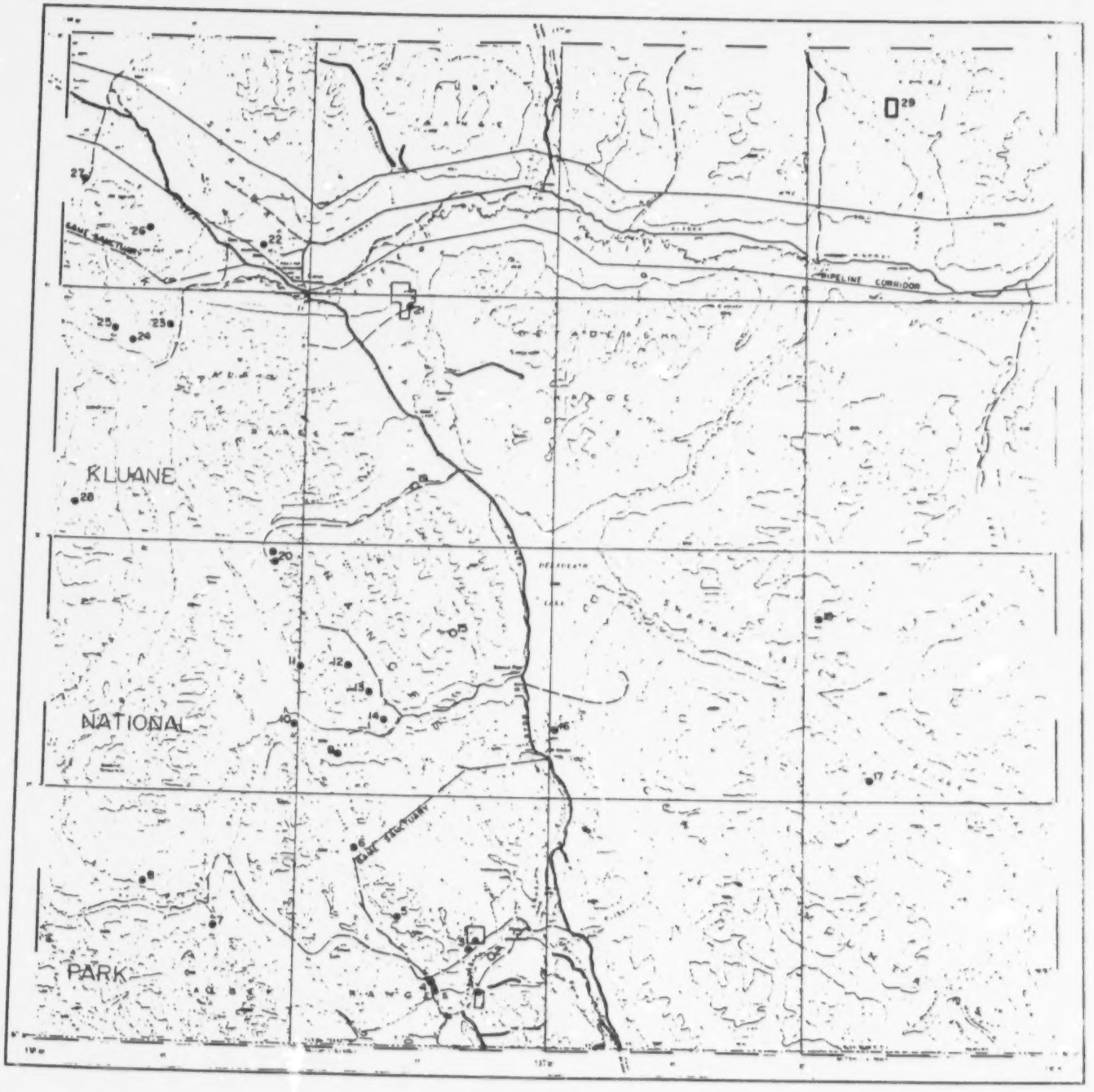
NASH CREEK

YUKON TERRITORY

106 D

Kilometres 0 1 2 3 4 5 10 15 20 Kilometres

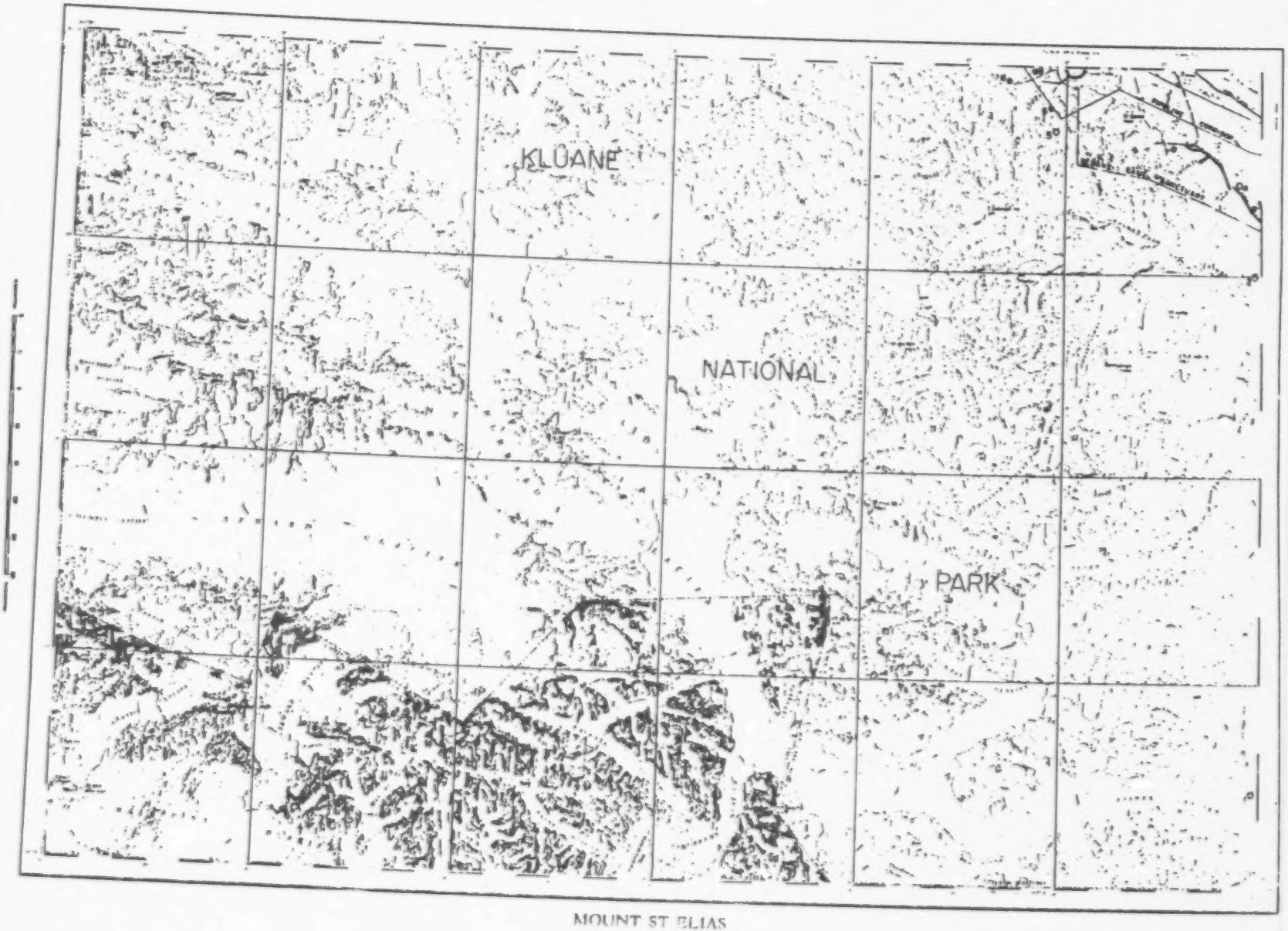
- ●61 ..... Mineral Deposit or Occurrence
- O72 ..... Unmineralized Target
- ..... Mineral Claims in good standing (Jan 1981) and staked before Jan 1980
- ..... Mineral Claims staked in 1980
- ..... Placer Leases in good standing (Jan 1981)
- ..... Placer Claims in good standing (Jan 1981)
- CEL ..... Coal Exploration Lease
- CML ..... Coal Mining Lease
- ..... Tote Trail
- ..... Driveable Road
- ◇ ..... Oil or Gas Well
- ..... Airstrip



DEZADEASH
YUKON TERRITORY

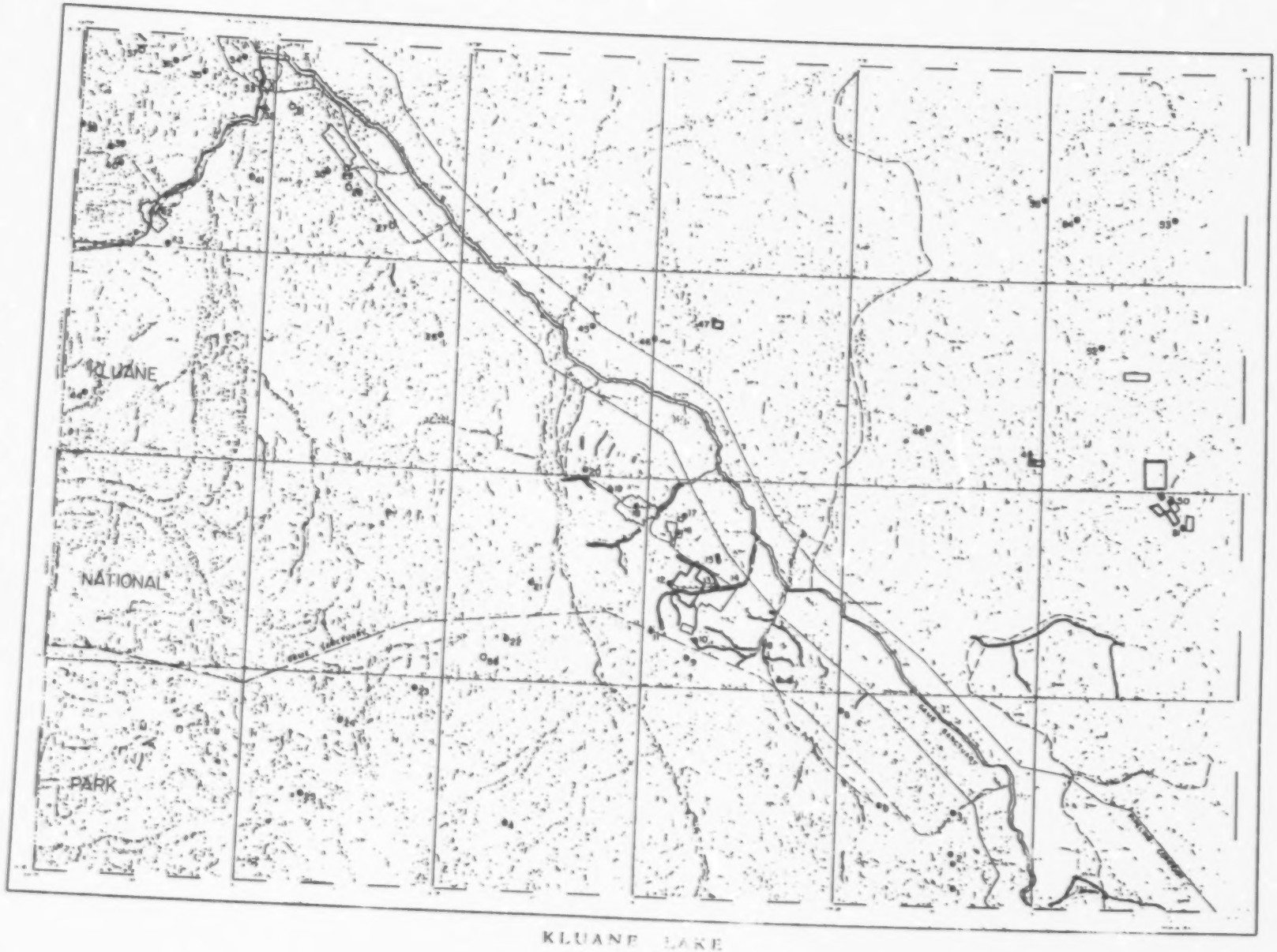
115 A

Mineral Deposit or Occurrence
Unmineralized Target
Mineral Claims in good standing (Jan 1981) and staked before Jan 1980
Mineral Claims staked in 1980
Placer Leases in good standing (Jan 1981)
Placer Claims in good standing (Jan 1981)
CEL Coal Exploration Lease
CML Coal Mining Lease
Type Trail
Driveable Road
Oil or Gas Well
Airstrip



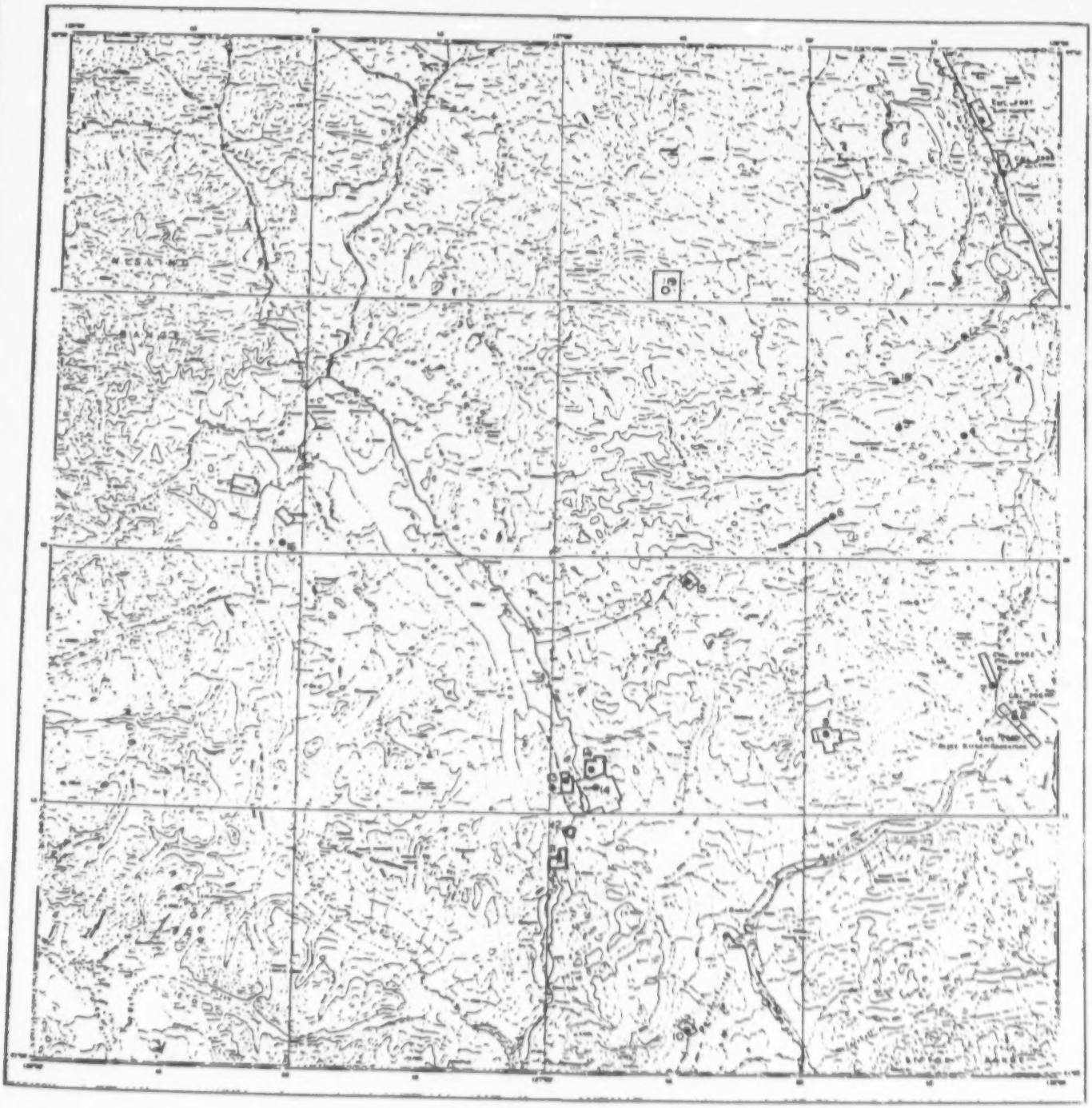
MOUNT ST ELIAS

115 B/C



KLUANE LAKE

115 F/G



AISHIHIK LAKE
YUKON TERRITORY

115 H

Mineral Deposit or Occurrence

Unmineralized Target

Mineral Claims in good standing (Jan 1981) and staked before Jan 1980

Mineral Claims staked in 1980

Placer Leases in good standing (Jan 1981)

Placer Claims in good standing (Jan 1981)

Coal Exploration Lease

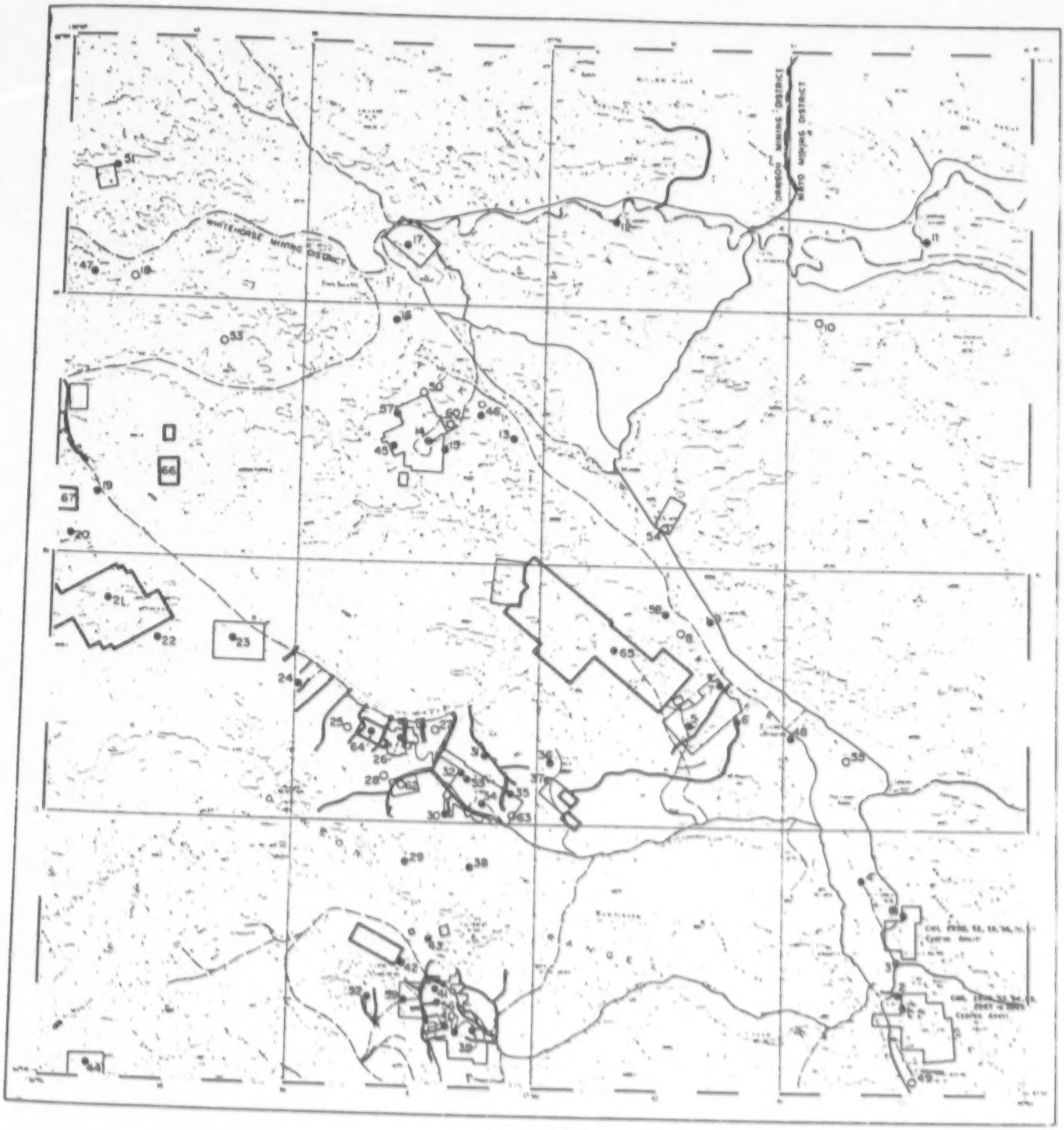
Coal Mining Lease

Tote Trail

Dirtroad Road

Oil or Gas Well

Airstrip

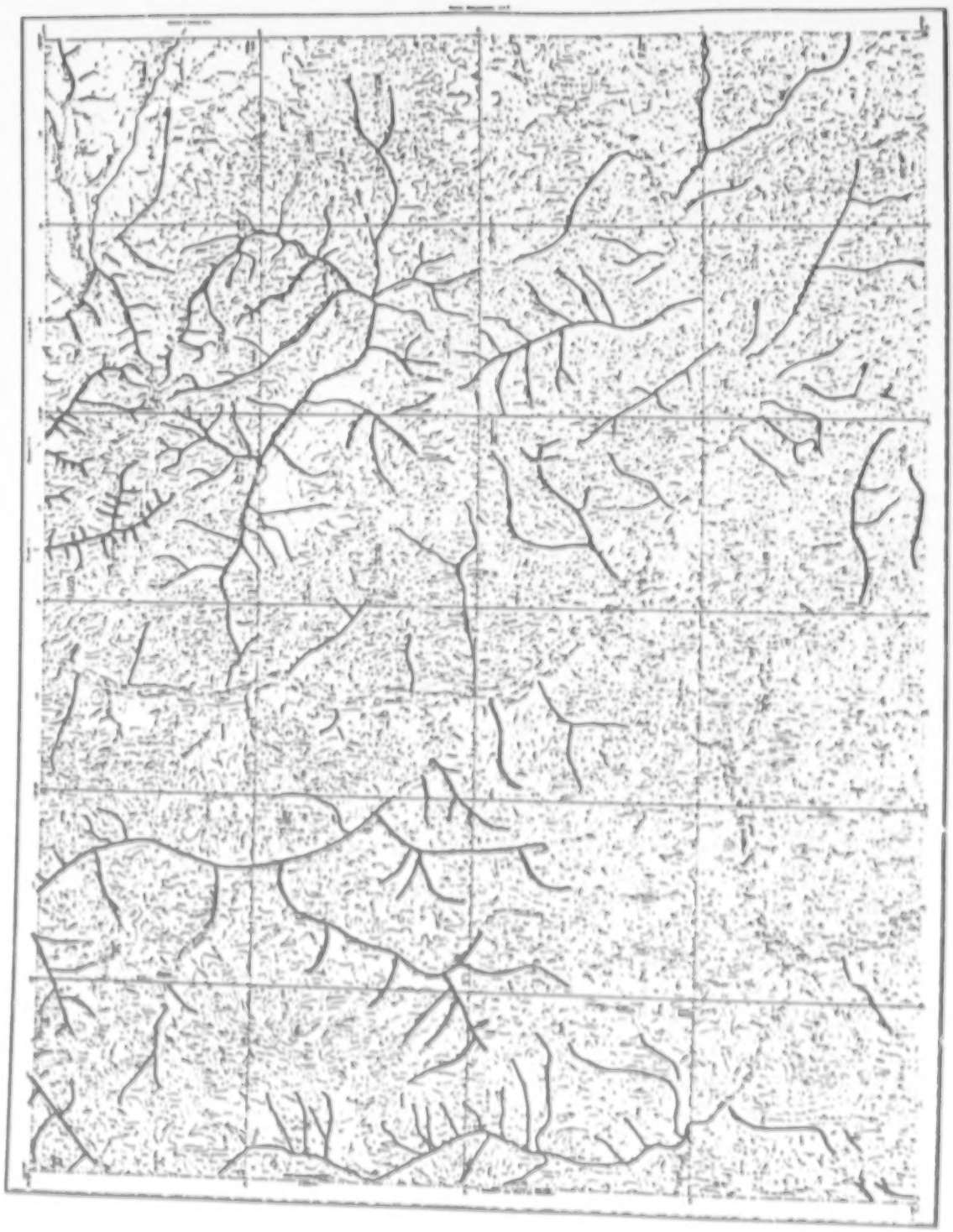


CARMACKS
YUKON TERRITORY

115 I

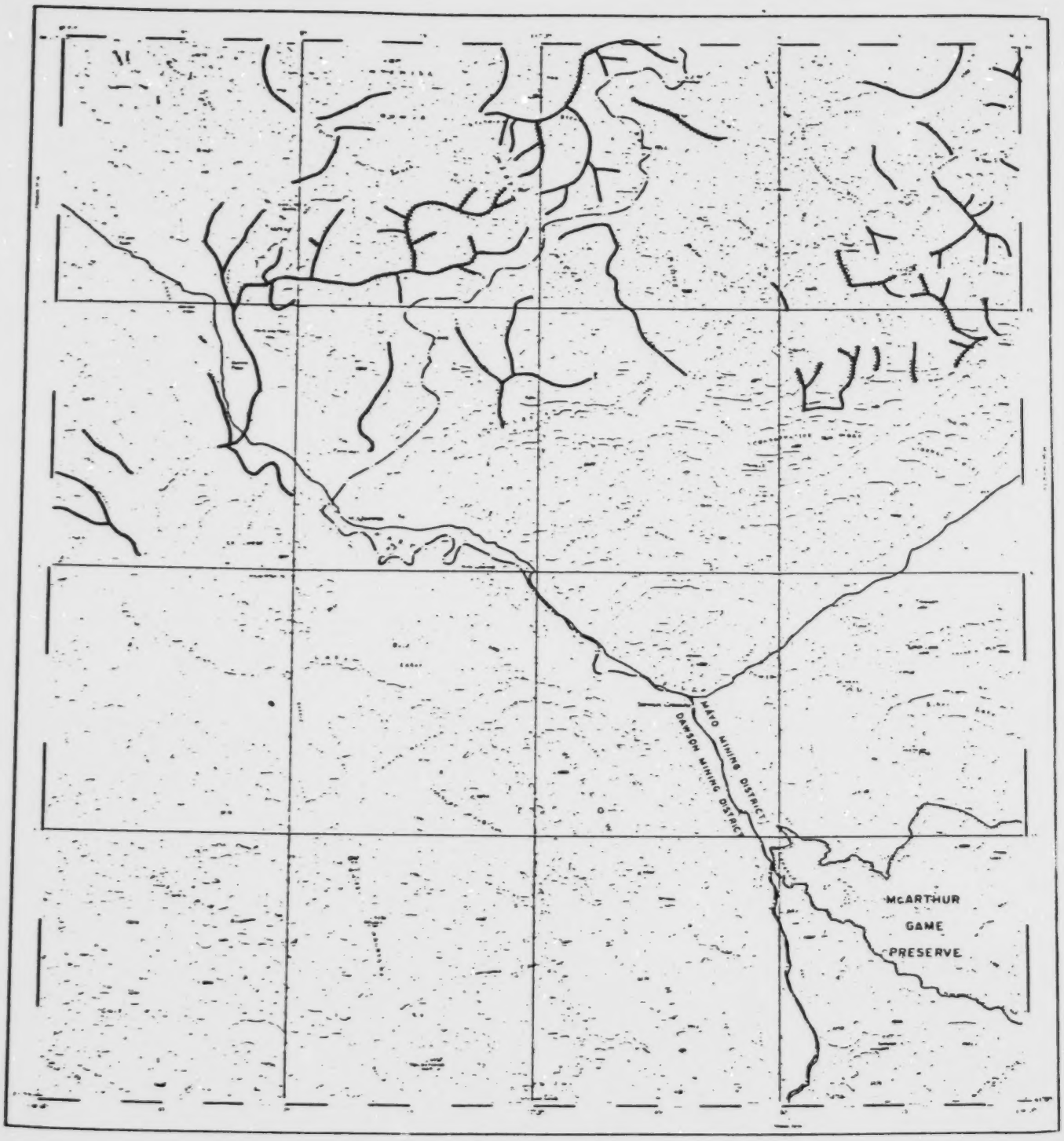
Mineral Deposit or Occurrence	Placer Leases in good standing (Jan 1981)		Toto Trail
Unmineralized Target	Placer Claims in good standing (Jan 1981)		Driveable Road
Mineral Claims in good standing (Jan 1981) and staked before Jan 1980	CEL Coal Exploration Lease		Oil or Gas Well
Mineral Claims staked in 1980	CML Coal Mining Lease		Airstrip

SNAG
115 J/K



STEWART RIVER

115 O/N



McQUESTEN

YUKON TERRITORY

115 P

Mineral Deposit or Occurrence

Unmineralized Target

Mineral Claims in good standing (Jan 1981) and staked before Jan 1980

Mineral Claims staked in 1980

Placer Leases in good standing (Jan 1981)

Placer Claims in good standing (Jan 1981)

CEL.. Coal Exploration Lease

CML Coal Mining Lease

Tote Trail

Driveable Road

Oil or Gas Well

Airstrip

DAWSON
116 B/C

BEAUFORT SEA
(ARCTIC OCEAN)
117 C
MACKENZIE BAY
117 B
117 A
117 C
116 O-N
116 P
RICHARDSON
116 J-K
116 I
106
PEEL RIVER
106 K
EAGLE PLAIN
RESERVE

PLACER DISPOSITIONS IN ATLIN MINING DIVISION, BRITISH COLUMBIA

Placer staking activity in British Columbia during the period 1978 to 1982 was also at a higher level than in years previous to that period. The counts of new leases staked in the Atlin Mining Division, and the total counts of new leases staked in the province each year from 1972 to 1982 are listed in the table below. Also listed are the counts of placer leases in good standing in the Atlin Mining Division each year from 1977 to 1982.

COUNT OF PLACER LEASES IN ATLIN MINING DIVISION AND BRITISH COLUMBIA, 1972 - 1982

	Atlin Mining Division		British Columbia	
Year	New Leases	Good Standing	New Leases	Good Standing
1972	65	+	284	+
1973	113	+	547	+
1974	41	+	401	+
1975	5	+	120	+
1976	15	+	289	+
1977	19	176	146	+
1978	17	189	397	+
1979	181	270	970	+
1980	370	586	763	+
1981	238	845	1946	+
1982	+	880	1441*	+

\+ not available
* preliminary figure

The cause of the increased staking activity between 1978 and 1982 was again the increased price of gold. Although the counts of new leases staked in British Columbia do not appear as overwhelming as do those in Yukon due to their magnitude, the difference in size of placer dispositions in British Columbia and Yukon means that more ground was staked in the province than in the territory. The count of leases in good standing in the Atlin Mining Division increased by almost five times during the period 1978 to 1982, while the amount of ground held in good standing in Yukon during the same period increased by only three times.

The locations of placer dispositions across the Atlin Mining Division in January, 1981 are shown on the following maps. These maps were prepared from claim maps of that date to present data consistent with that presented earlier in this report for Yukon.

Maps showing placer dispositions across the Atlin Mining Division in January, 1983 are being prepared for release in the report "Yukon Placer Mining Industry, 1978-1982" which is to be released during the summer of 1983.

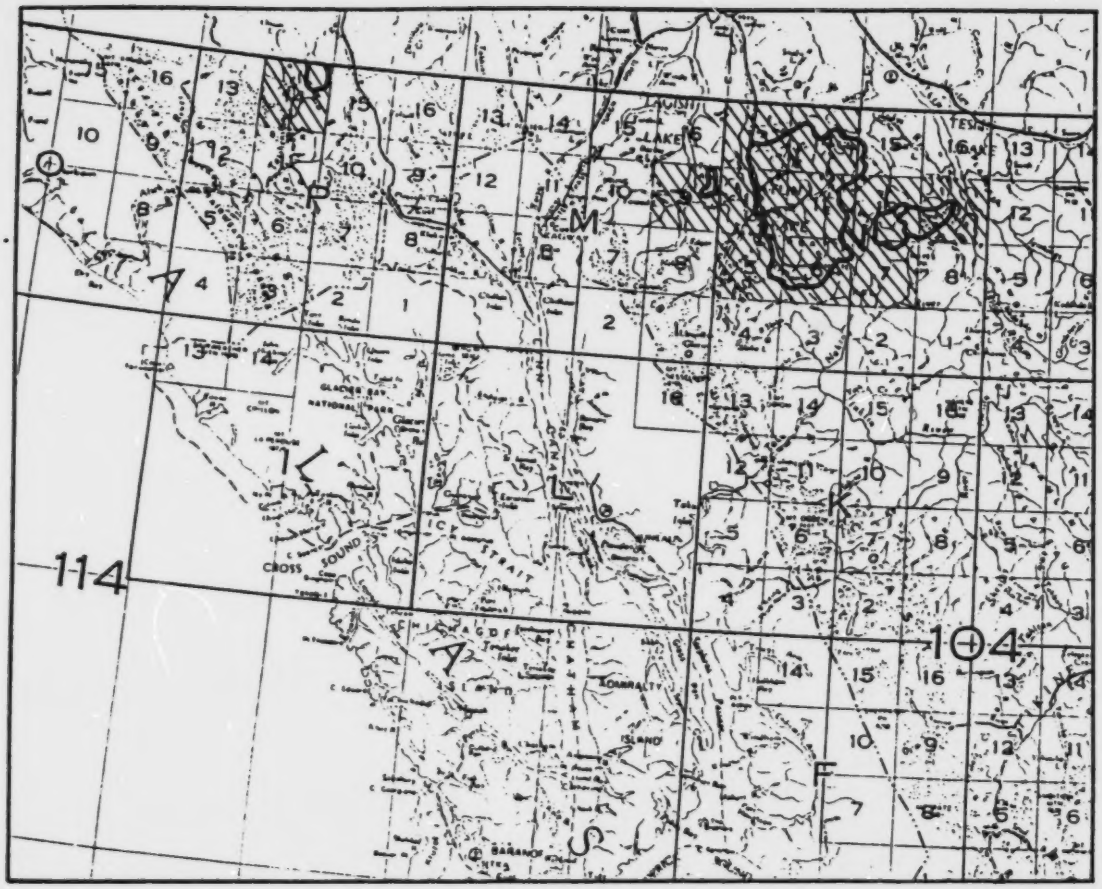
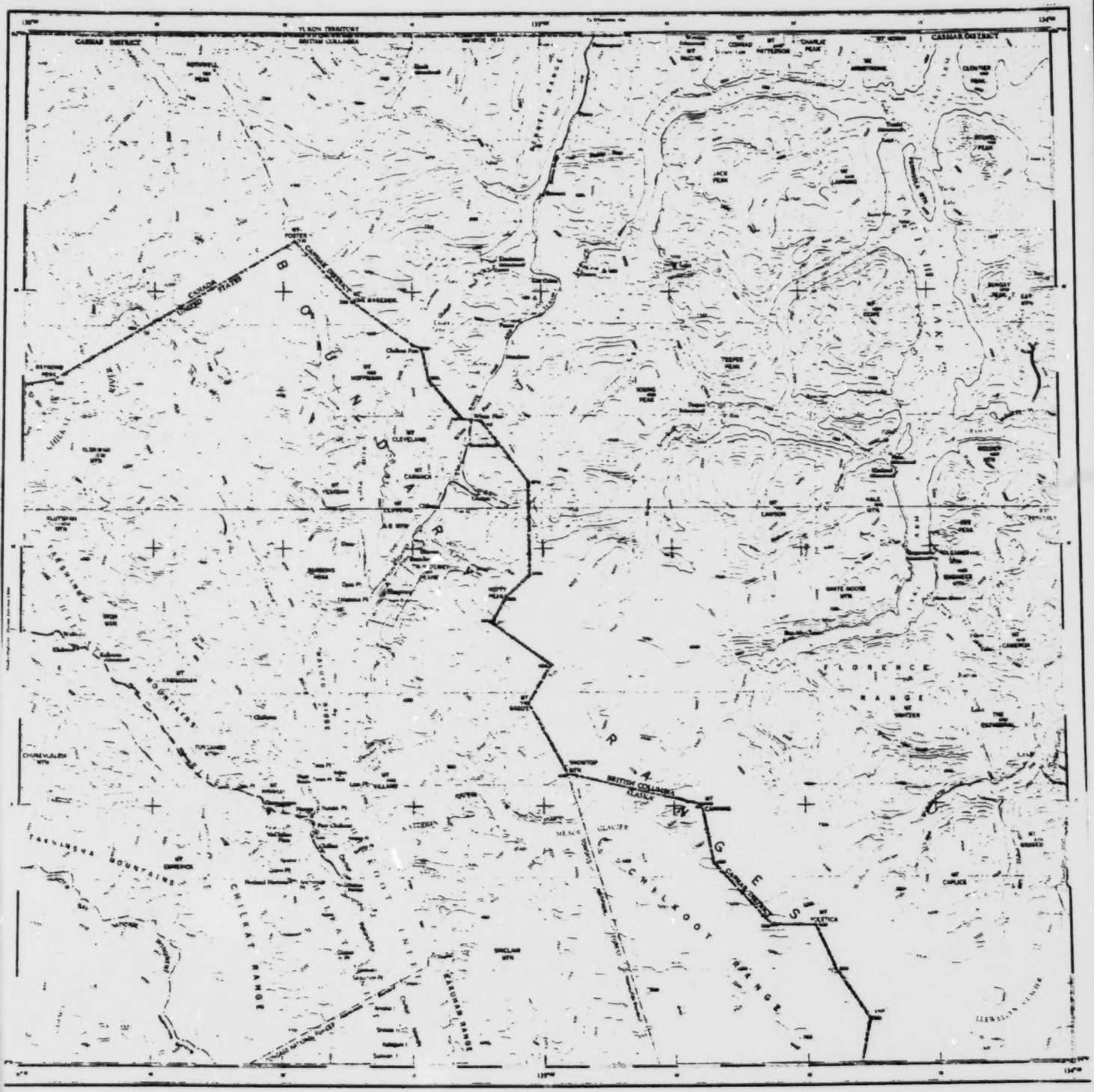
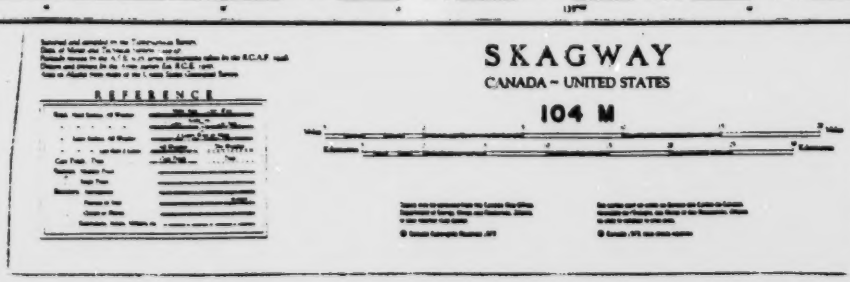


Figure 1: Index map to designated placer areas in Atlin Mining Division. N.T.S. areas in which placer dispositions occur are shaded.

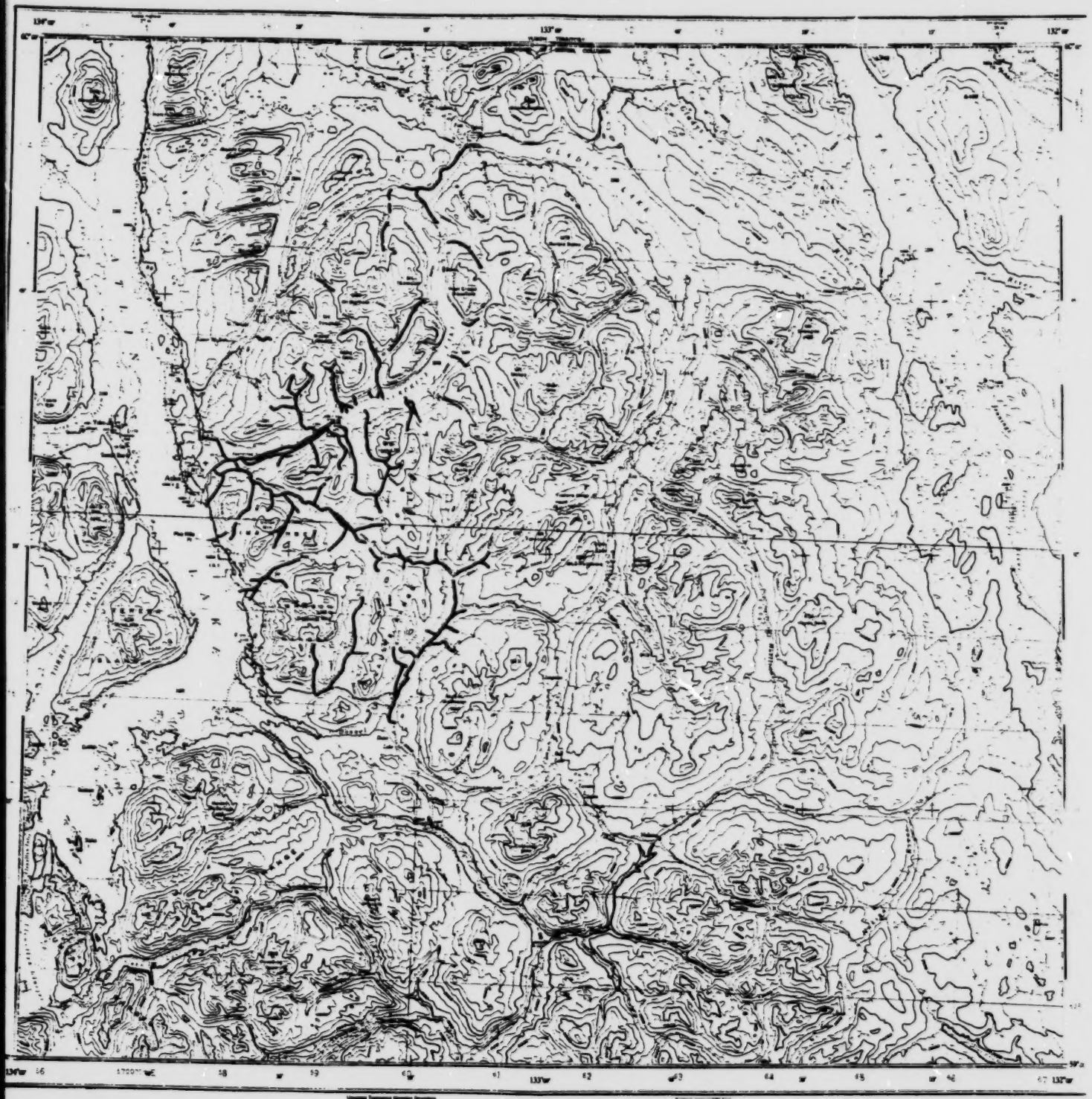




SKAGWAY

CANADA – UNITED STATES

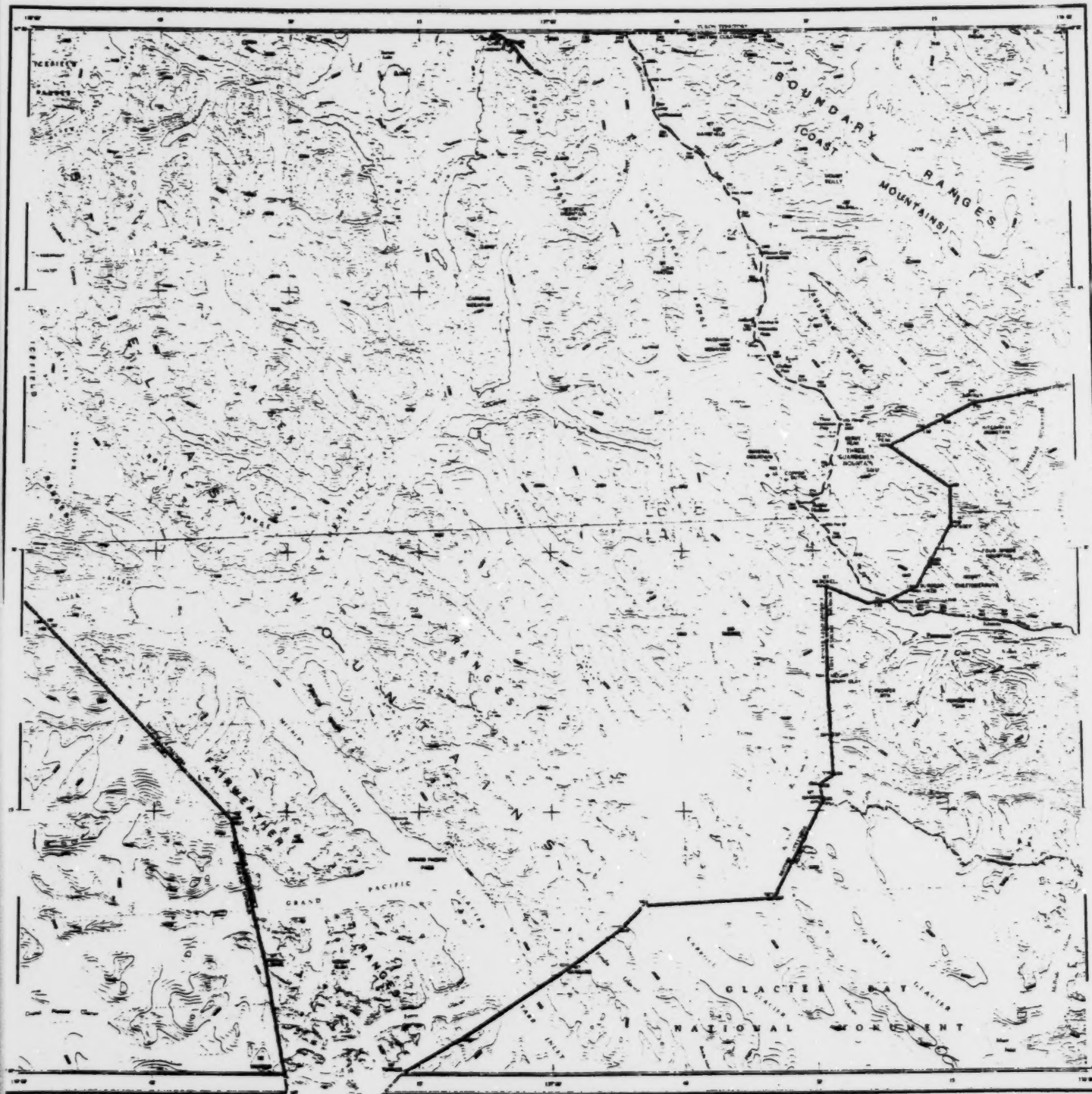
104 M



ATLIN

BRITISH COLUMBIA

N·T·S· 104 N



TATSHENSHINI RIVER

CANADA - UNITED STATES OF AMERICA

114 P

PLACER MINING OPERATIONS IN YUKON

Placer mining activity in Yukon increased along with staking activity during the period 1978 to 1982. An indication of the increased activity is the counts of water use authorizations granted each year for placer mining purposes. Those counts are listed in the table below along with counts of mining operations active each year, and of employees at those operations. The number of mining operations and employees are not exact. Some mining operations active for only very limited time periods are not included. Small testing, rather than mining, operations are not included. Some operations change significantly in size during the operating season. Although not exact, the numbers nevertheless provide an indication of the scale of the placer mining industry in Yukon.

SCALE OF PLACER MINING INDUSTRY IN YUKON, 1978 - 1982

Year	Water Use Authorizations	Count of Mining Operations	Count Of Employees
1978	128	78	335
1979	194	118	489
1980	317	197	788
1981	365	223	781
1982	356	215	650

The majority of employees involved in placer mining work at operations with three employees or less. The counts of operations and employees at them in 1982 illustrate the preponderance of small, usually family owned and operated mines.

DISTRIBUTION OF EMPLOYEES OF YUKON PLACER MINES, 1982

Size of Operations	Count of Operations	Count of Employees
3 employees or less	162	360
4 employees	20	80
5 employees	15	75
6 employees or more	18	135
Total	215	650

In 1982, 55% of employees at placer mines in Yukon worked at 75% of the operations, all of which had 3 employees of fewer. Small operations comprised slightly less of the total number of operations in 1980 and 1981.

Employees at placer mining operations have only seasonal work. Many work such long hours, however, that their earnings during the mining season support them year-round.

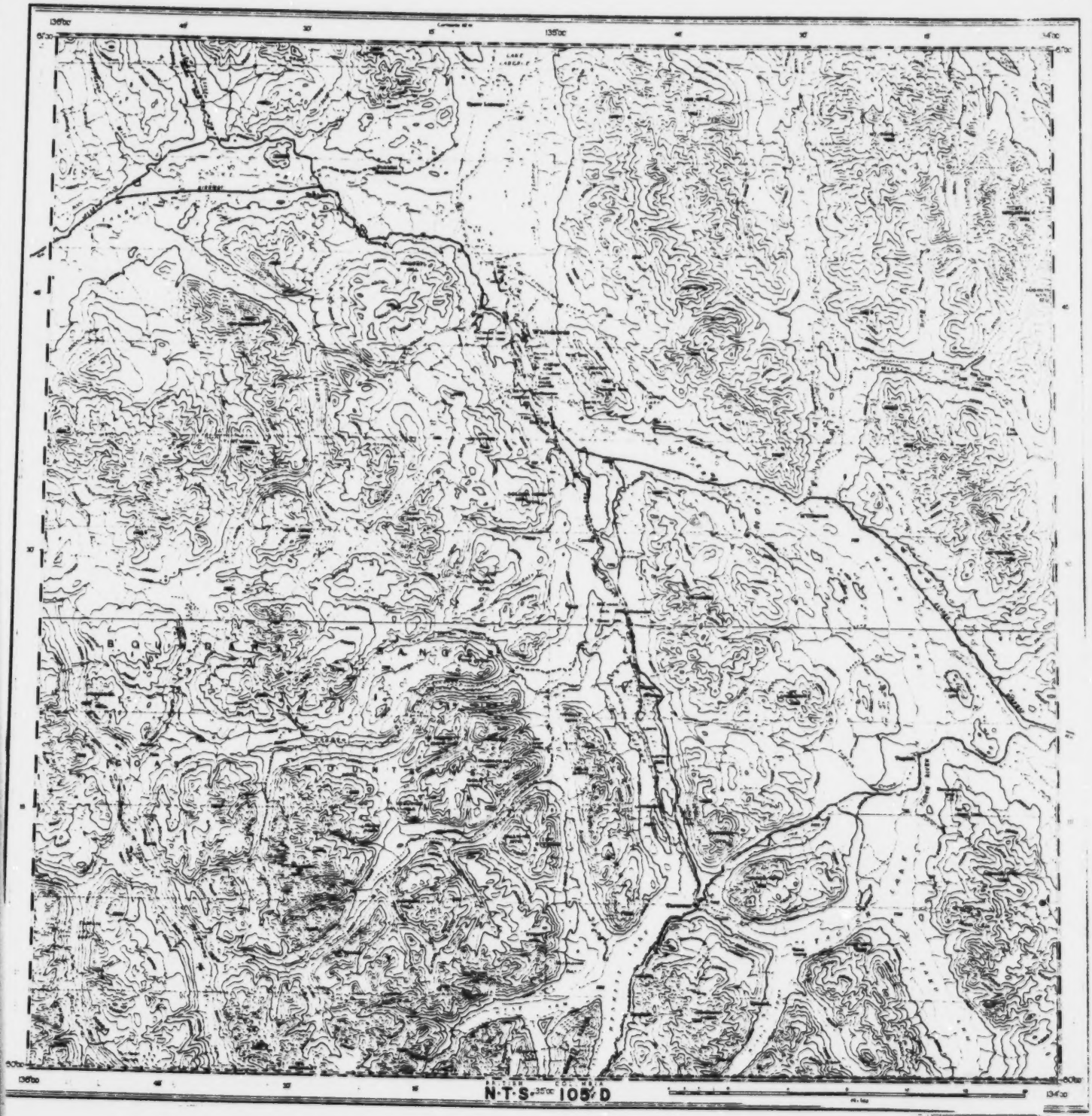
Employees counted in the above tables are direct employees only. They do not include employees of support industries such as machinery, fuel, and food suppliers, and refiners. One to two jobs in support industries are generally considered to result from every job in a primary industry such as mining.

The locations of placer mining operations in Yukon during the period 1978-1982 are shown on the following maps. They occur on 15 of the 44 maps of Yukon published at a scale of 1:250,000.

Each operation is indicated by a numbered dot. Following each map, a legend lists the number of each operation, its N.T.S. location and co-ordinates, the names of operators who worked at the site between 1978 and 1982 and the years in which they were active. Descriptions of the individual deposits, mining, and processing methods at each site, and the size of each operation are not listed. They are being prepared for release in the report "Yukon Placer Mining Industry, 1978-1982" which is to be released during the summer of 1983.

Mining operations in the Klondike area are shown on an inset map covering parts of N.T.S. areas 115 O/N and 115 B/C.

Figure 1: Index map to N.T.S. are as in Yukon. Areas in which there were placer mining operations between 1978 and 1982 are shaded.

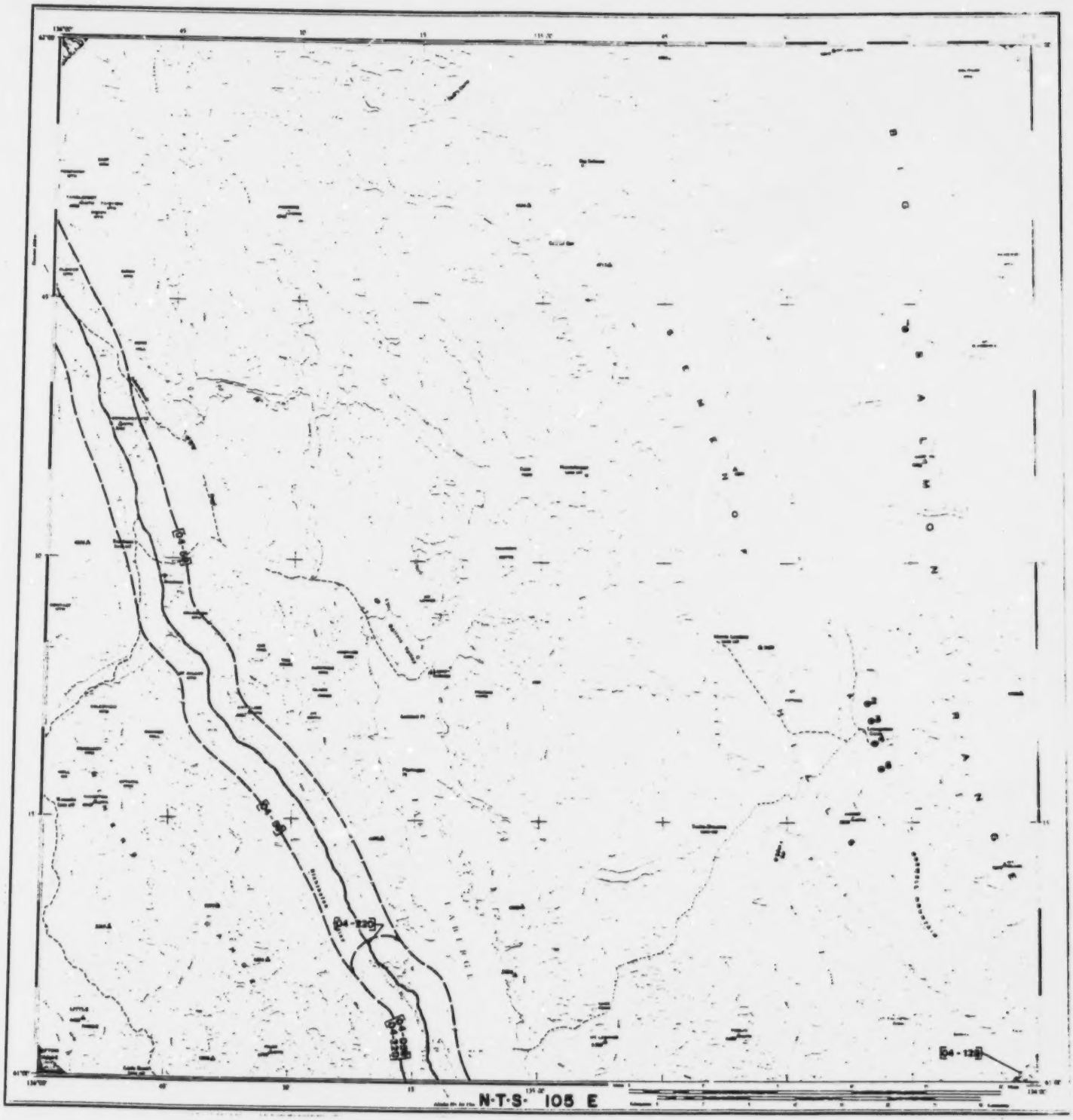

N·T·S· 105 D

PLACER MINING OPERATIONS

N.T.S. 105 D

Helfrich Pipelines
Moose Creek
1982

(1)
105 D 1
60° 10'N, 134° 02'W


84-22
84-12
N·T·S· 105 E

PLACER MINING OPERATIONS

N.T.S. 105 E

P. Servant
Triple E Mining
D'Abbadie Creek
1982

(1)
105 E 9
61° 44'N, 134° 16'W

G. Asuchak
Lake Creek
1978, 1979, 1980
1981, 1982

(2)
105 E 8
61° 22'N, 134° 21'W

R. Asuchak
Summit Creek
1980, 1981, 1982

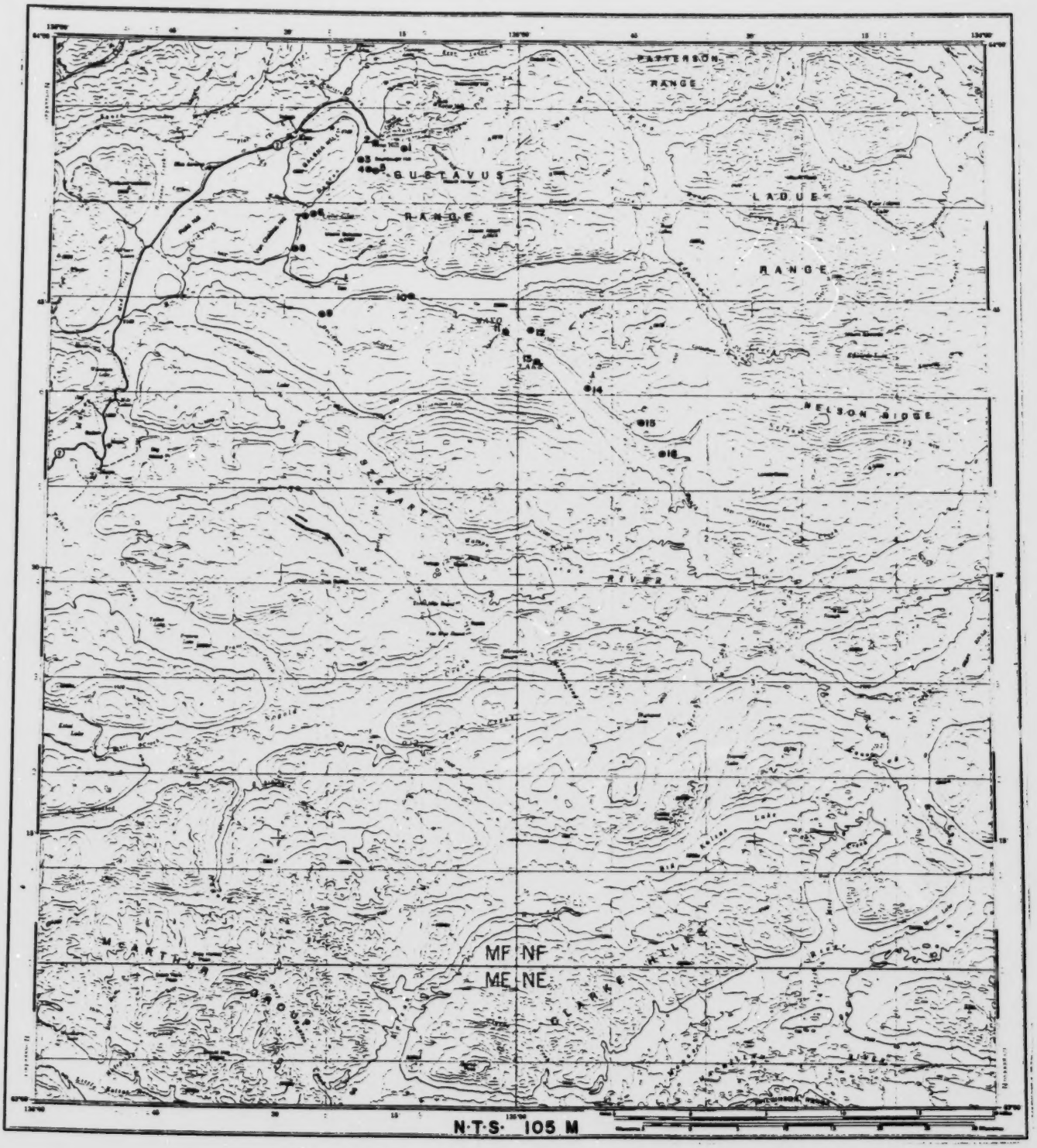
(3)
105 E 8
61° 21'N, 134° 20'W

M. Fuerstner
Livingstone Creek
1978, 1979, 1980
1981, 1982

(4)
105 E 8
61° 20'N, 134° 19'W

D. Gonder
Martin Creek
1980, 1981, 1982

(5)
105 E 8
61° 18'N, 134° 19'W


PATTERSON
RANGE
GUSTAVUS
RANGE
LADUE
RANGE
NELSON RIDGE
MF NF
ME NE
N·T·S· 105 M

PLACER MINING OPERATIONS

N.T.S. 105 M

Bardusan Placers Ltd.
Thunder Gulch
1978, 1979

(1)
105 M 14
63° 54'N, 135° 15'W

A. Hofer
J. Willies
D. Wallingham
F. Tueter
B. Foot
Lightning Creek
1978, 1979, 1980
1981, 1982

(2)
115 M 14
64° 54'N, 135° 19'W

N. Bunka
C. French
Duncan Creek
1980, 1981, 1982

(3)
105 M 14
63° 53'N, 135° 21'W

D. Flick
G. Gervais
Duncan Creek
1980, 1981, 1982

(4)
105 M 14
63° 53'N, 135° 20'W

M. Alexander
Nugget Drilling
1978, 1979, 1980
1981, 1982

(5)
105 M 14
63° 53'N, 135° 19'W

E. Wiez
Parent Creek
1978, 1979
1980, 1981

(6)
105 M 14
63° 50'N, 135° 26'W

Nugget Drilling
Duncan Creek
1980, 1981

(7)
105 M 14
63° 50'N, 135° 28'W

F. Taylor
Duncan Creek
1978, 1979, 1980
1981, 1982

(8)
105 M 14
63° 48'N, 135° 29'W

A. Pelland
Davidson Creek
1978, 1979, 1980
1981, 1982

(9)
105 M 11
63° 45'N, 135° 25'W

E. Friesen
Dawn Creek
1978, 1979, 1980
1981, 1982

(10)
105 M 13
63° 46'N, 135° 13'W

L. Wozniak
Anderson Creek
1978, 1979, 1980
1981, 1982

(11)
105 M 11
63° 43'N, 135° 02'W

G. Hosack
Unnamed Creek
1980

(12)
105 M 10
63° 44'N, 134° 58'W

H. Moritz
Meyer Properties Inc.
1978, 1979, 1980
1981, 1982

(13)
105 M 10
63° 42'N, 134° 58'W

B. Liske
Eagles Nest
Ledge Creek
1981, 1982

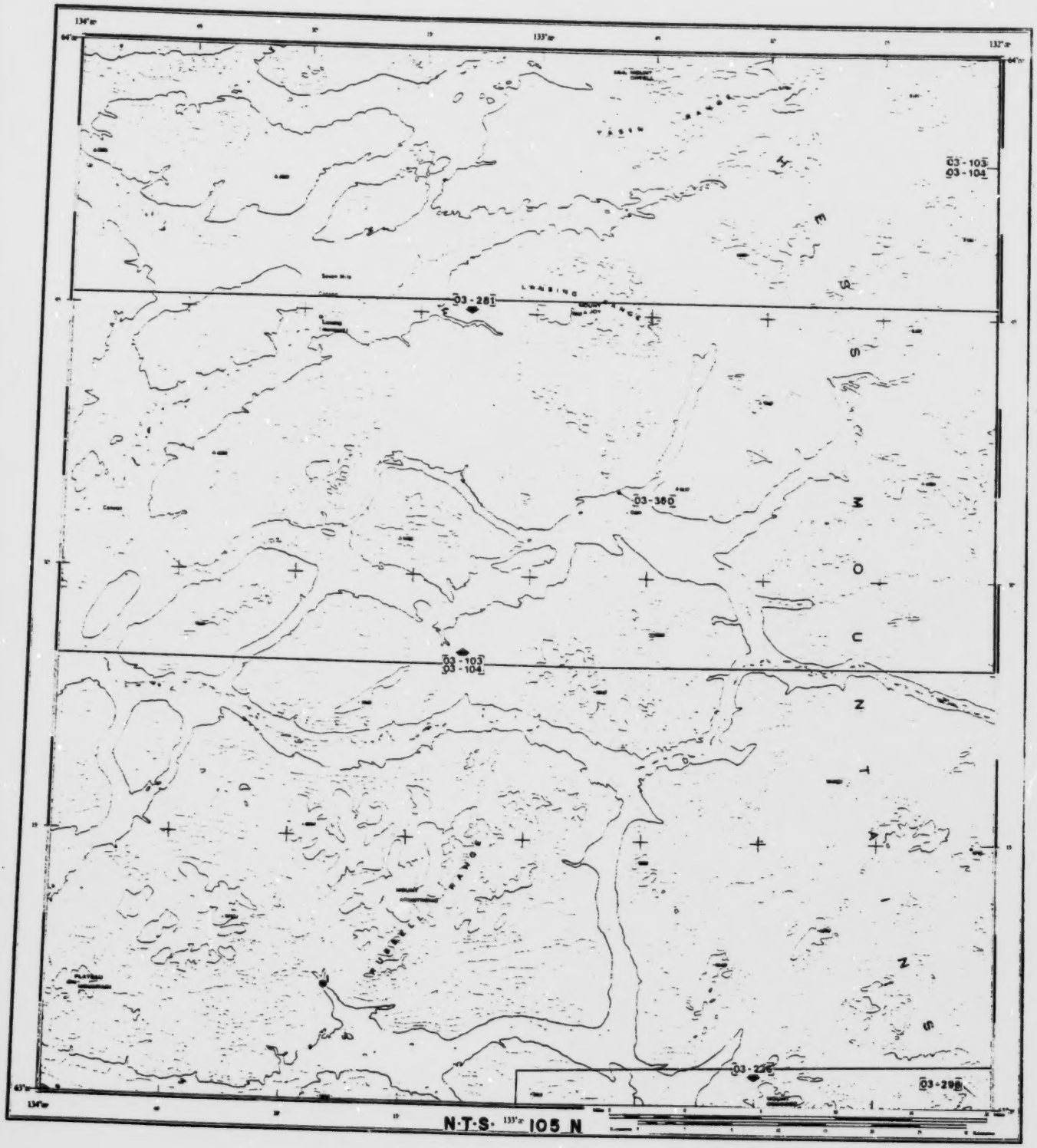
(14)
105 M 10
63° 41'N, 134° 51'W

K. Miner
Cascade Creek
1981, 1982

(15)
105 M 10
63° 39'N, 134° 44'W

Wolf Resources
Nelson Creek
1981

(16)
105 M 10
63° 52'N, 134° 41'W

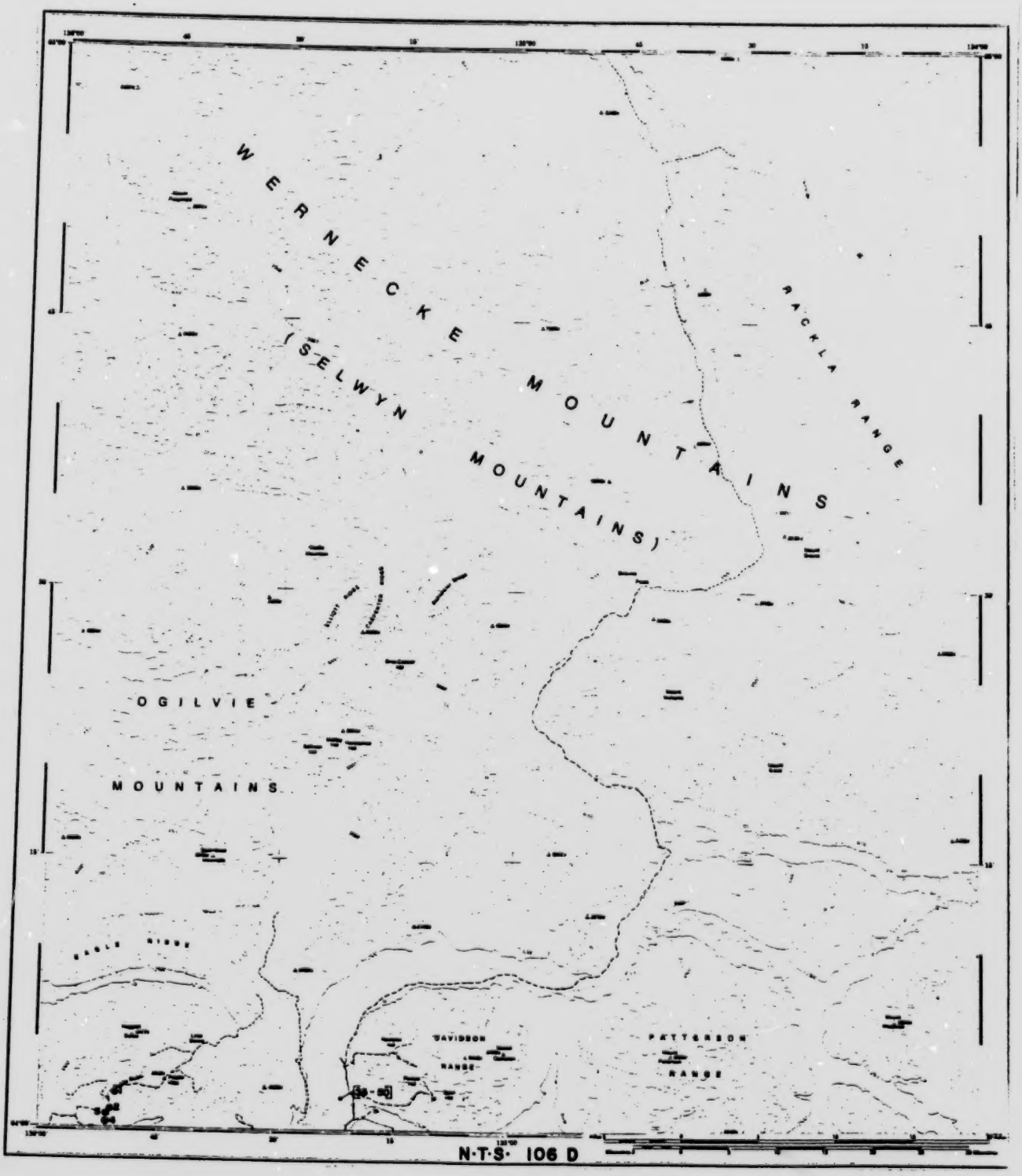

105 O 3 - 103
105 O 3 - 104
105 O 3 - 281
105 O 3 - 360
105 O 3 - 103
105 O 3 - 104
105 O 3 - 226
105 O 3 - 298
N·T·S· 105 N

PLACER MINING OPERATIONS

N.T.S. 105 N

Noranda Mines Ltd.
Dawson Mining Equipment Ltd.
Russell Creek
1981, 1982

(1)
105 N 3
63° 07'N, 133° 24'W


WERNECKE MOUNTAINS
(SELWYN MOUNTAINS)
PACKLA RANGE
OGILVIE
MOUNTAINS
EAGLE RIDGE
DAVIDSON
RANGE
PATTERSON
RANGE
N·T·S· 106 D

PLACER MINING OPERATIONS

N.T.S. 106 D

Darron Placers
Canada Tungsten Mining Corp.
Queenstake Resources Ltd.
Dublin Gulch
1978, 1979, 1980
1981, 1982

(1)
106 D 4
64° 02'N, 135° 50'W

A. Ritter
F. Schornig
W. Malicky
Haggart Creek
1982

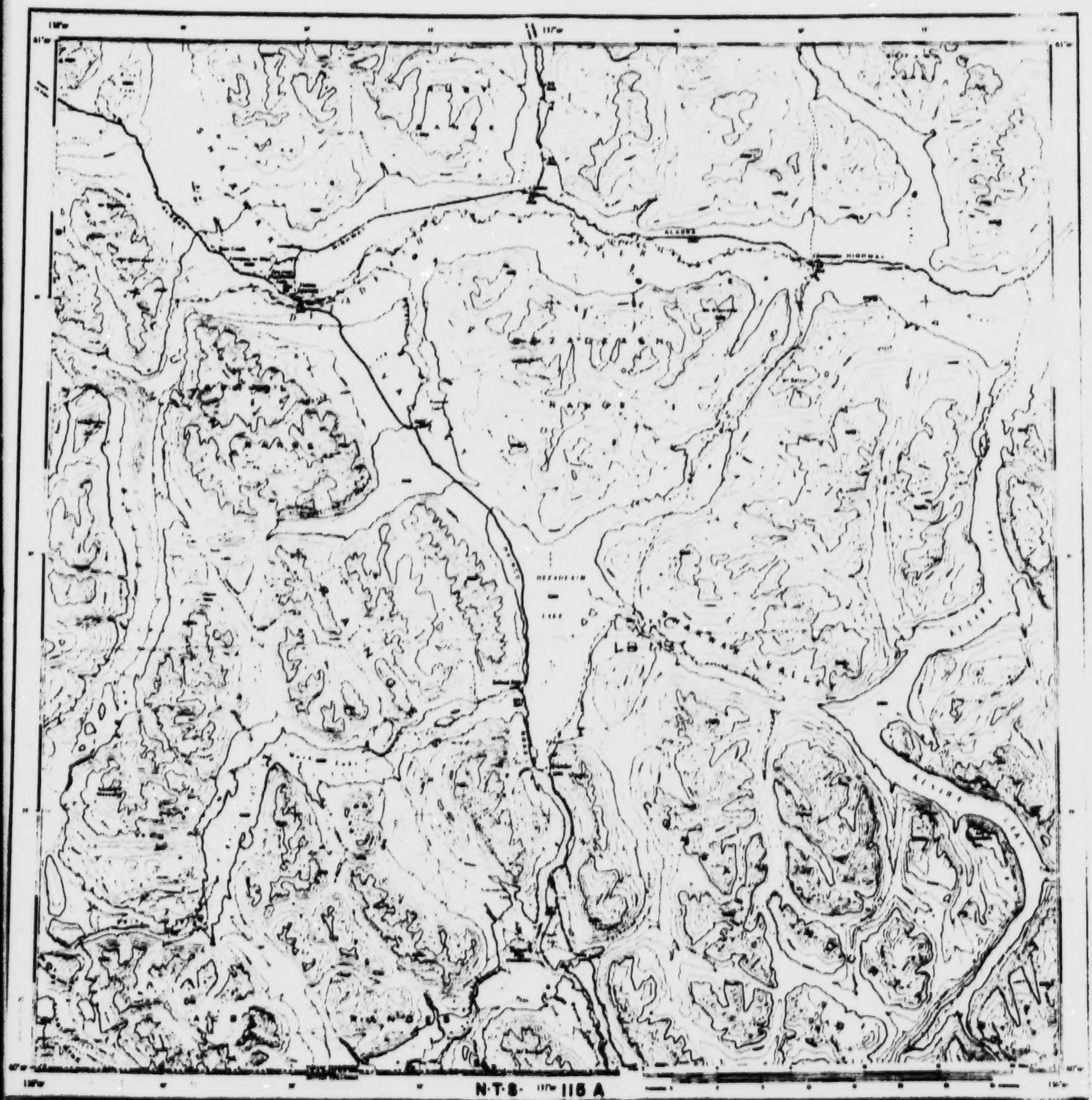
(2)
106 D 4
64° 01'N, 135° 51'W

T. Takis
E. Sevosik
W. Malicky
Haggart Creek
1982

(3)
106 D 4
64° 01'N, 135° 51'W

G. Manson
Haggart Creek
Fifteen Pup
1978, 1979, 1980
1981, 1982

(4)
106 D 4
64° 00'N, 135° 52'W


N·T·S· 115 A

PLACER MINING OPERATIONS

N.T.S. 115 A

G. Yardley
Kimberely Creek
1982

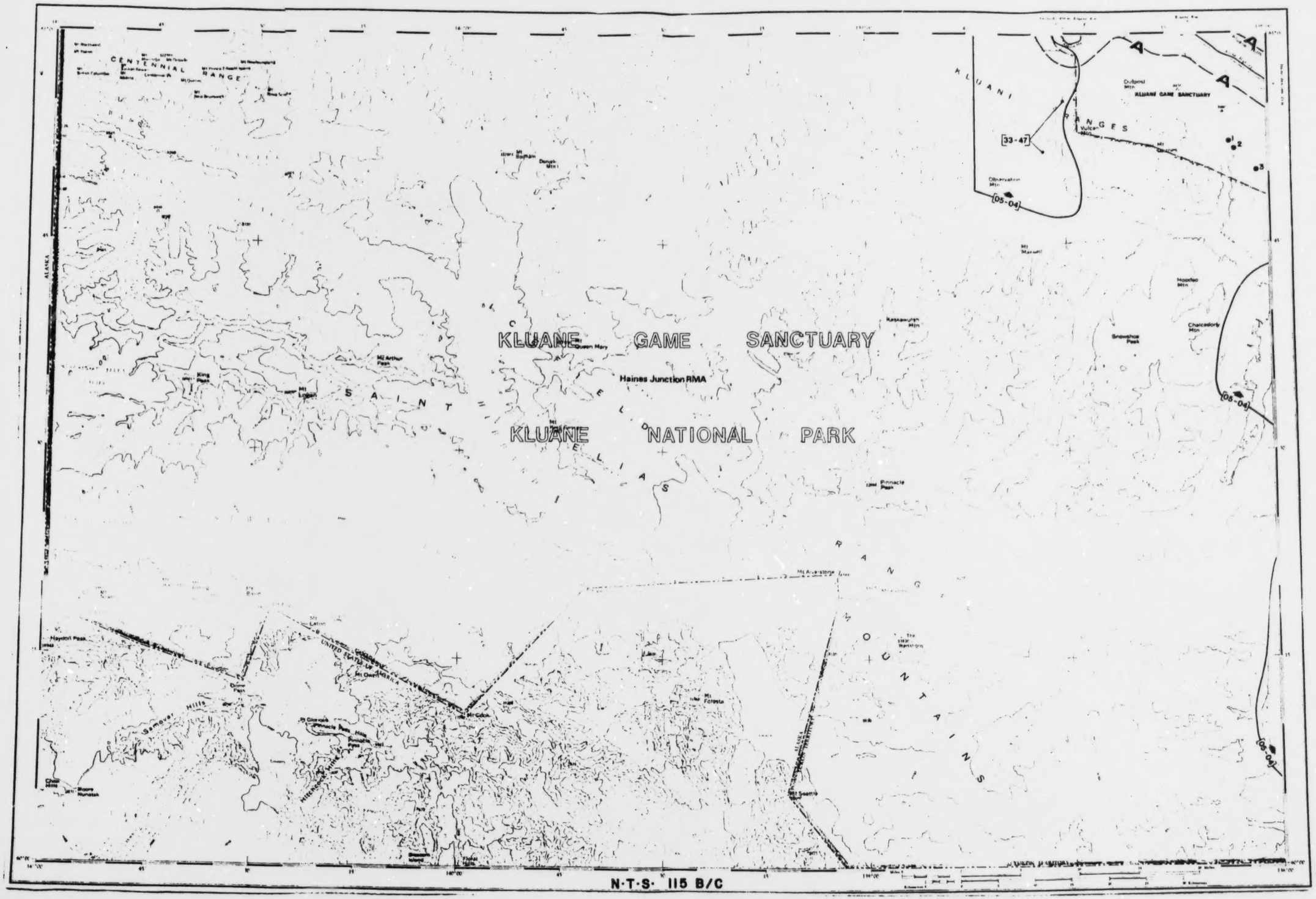
(1)
115 A 13
60° 49'N, 137° 59'W

W. Yates
Dollis Creek
1982

(2)
115 A 3
60° 00'N, 137° 08'W

Yukon Gold Holdings
Dollis Creek
1982

(3)
115 A 3
60° 00'N, 137° 08'W

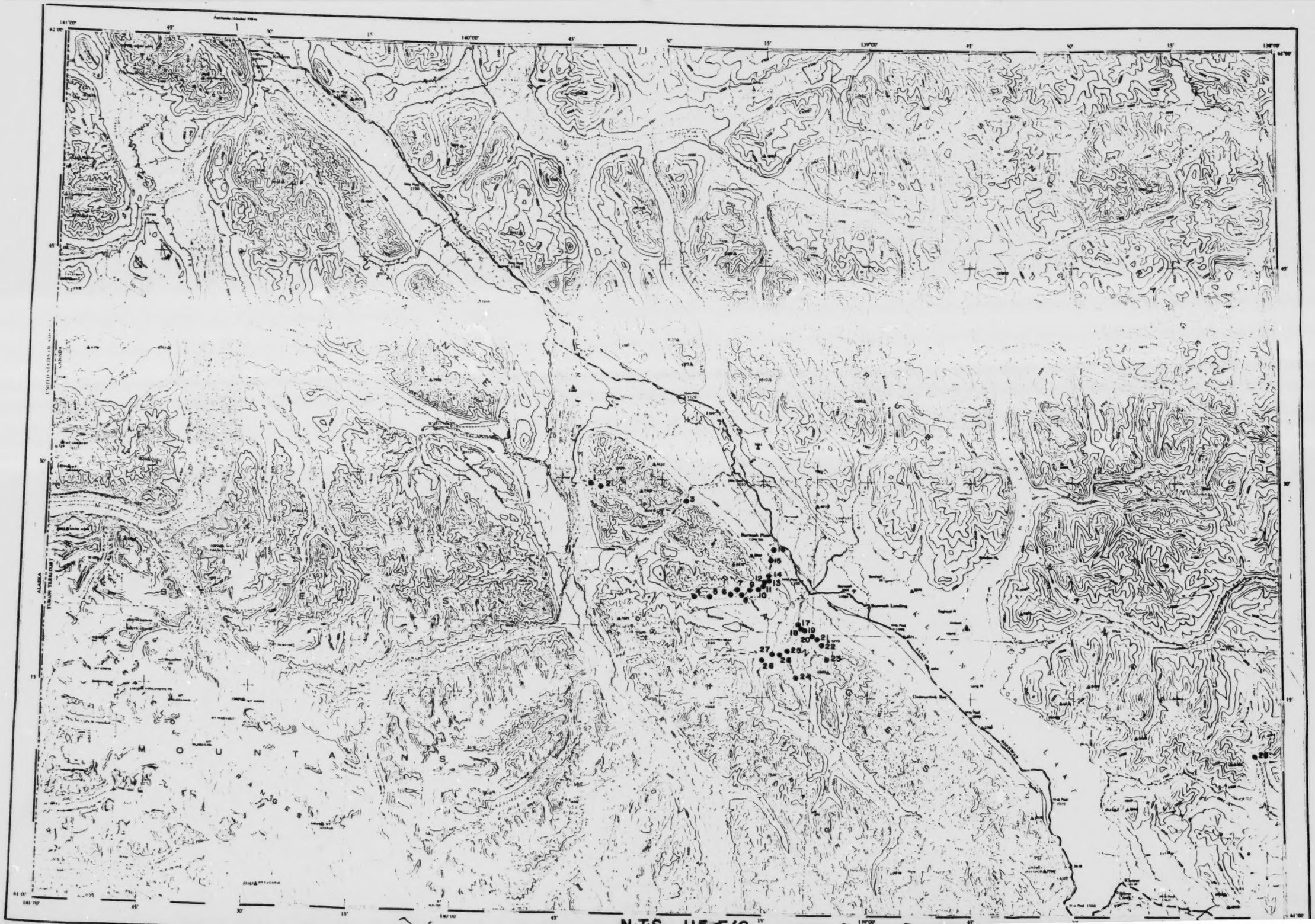

CENTENNIAL RANGE
ALASKA
KLUANE GAME SANCTUARY
Haines Junction RMA
KLUANE NATIONAL PARK
SAINT ELIAS MOUNTAINS
KLUANE RANGES
KLUANE GAME SANCTUARY
[33-47]
[05-04]
[05-04]
Mt Queen Mary
Mt Arthur
King Peak
Mt Logan
Mt Lucania
Mt Steele
Mt Augusta
Mt Cook
Mt Foresta
Mt Alverstone
Mt Fairweather
Mt Vancouver
Mt Hubbard
Mt Seattle
Mt Saint Elias
Mt Marcus
Observation Mtn
Vulcan Mtn
Outpost Mtn
Snowshoe Peak
Chalkodorly Mtn
Kaskawulsh Mtn
Pinnacle Peak
Haystack Peak
Semenov Hills
Donjek Mtn
Dezadeash Lake
Kluane Lake
Slims River
Duke River
Bates Ranges
Boom Mountain
Dixon Mountain
Hitchcock Creek
Duke River Fault
Denali Fault
Shakwak Trench
Fisher Peaks
Dezadeash Range
Kluane Ranges
Kluane Mountains
Alsek Ranges
Icefield Ranges
Yukon
Alaska
British Columbia
Northwest Territories
Saskatchewan
Manitoba
Ontario
Quebec
New Brunswick
Nova Scotia
Prince Edward Island
Newfoundland
Labrador
Hudson Bay
Gulf of Alaska
Pacific Ocean
Atlantic Ocean
Arctic Ocean
Gulf of St. Lawrence
Gulf of Mexico
Caribbean Sea
Bering Sea
Beaufort Sea
Baffin Bay
Davis Strait
Greenland
Iceland
Ireland
United Kingdom
France
Spain
Portugal
Italy
Germany
Poland
Russia
Japan
China
India
Australia
New Zealand
Mexico
Cuba
Jamaica
Haiti
Dominican Republic
Puerto Rico
Trinidad and Tobago
Venezuela
Colombia
Ecuador
Peru
Brazil
Chile
Argentina
Uruguay
Paraguay
Bolivia
Guyana
Suriname
French Guiana
Falkland Islands
South Georgia
Antarctica
Africa
Asia
Europe
North America
South America
Oceania
Australia
New Zealand
Indonesia
Philippines
Malaysia
Singapore
Thailand
Vietnam
Cambodia
Laos
Myanmar
Bangladesh
Pakistan
Afghanistan
Iran
Iraq
Saudi Arabia
Yemen
Oman
United Arab Emirates
Qatar
Bahrain
Kuwait
Jordan
Israel
Lebanon
Syria
Turkey
Greece
Cyprus
Egypt
Libya
Tunisia
Algeria
Morocco
Western Sahara
Mauritania
Senegal
Gambia
Guinea-Bissau
Guinea
Sierra Leone
Liberia
Ivory Coast
Ghana
Togo
Benin
Nigeria
Cameroon
Equatorial Guinea
Gabon
Republic of the Congo
Democratic Republic of the Congo
Angola
Namibia
South Africa
Lesotho
Swaziland
Mozambique
Zimbabwe
Botswana
Zambia
Malawi
Tanzania
Kenya
Uganda
Rwanda
Burundi
Ethiopia
Eritrea
Djibouti
Somalia
Sudan
South Sudan
Central African Republic
Chad
Niger
Mali
Burkina Faso
Nigeria
Cameroon
Equatorial Guinea
Gabon
Republic of the Congo
Democratic Republic of the Congo
Angola
Namibia
South Africa
Lesotho
Swaziland
Mozambique
Zimbabwe
Botswana
Zambia
Malawi
Tanzania
Kenya
Uganda
Rwanda
Burundi
Ethiopia
Eritrea
Djibouti
Somalia
Sudan
South Sudan
Central African Republic
Chad
Niger
Mali
Burkina Faso

N·T·S· 115 B/C

PLACER MINING OPERATIONS

N.T.S. 115 B/C

A. Allison Telluride Creek 1982	(1) 115 B 16 60° 52'N, 138° 06'W
R. Istchenko Telluride Creek 1981, 1982	(2) 115 B 16 60° 52'N, 138° 06'W
C. Sawyer Kimberley Creek 1980, 1981, 1982	(3) 115 B 16 60° 50'N, 138° 02'W


SELWYN MOUNTAINS
MACKENZIE MOUNTAINS
YUKON TERRITORY
NORTHWEST TERRITORIES
ALASKA
CANADA

PLACER MINING OPERATIONS

N.T.S. 115 F/G

R. Braun
Arch Creek
1980, 1981, 1982

(1)
115 G 5
61° 30'N, 139° 41'W

M. Melanson
Arch Creek
1980, 1981, 1982

(2)
115 G 5
61° 29'N, 139° 39'W

M. Mogenson
McCrory Holdings
Quill Creek
1980, 1981, 1982

(3)
115 G 6
61° 29'N, 139° 27'W

M. Flynn
Burwash Creek
1979, 1980
1981, 1982

(4)
115 G 6
61° 22'N, 139° 25'W

Cooper Creek Mining Company
Burwash Creek
1978, 1979, 1980
1981, 1982

(5)
115 G 6
61° 22'N, 139° 24'W

Kluane Resources
Burwash Creek
1981, 1982

(6)
115 G 6
61° 22'N, 139° 20'W

W. Jones
M. Bauman
Tatamagouche Creek
1979

(7)
115 G 6
61° 23'N, 139° 19'W

2595 Yukon Ltd.
Burwash Creek
1982

(8)
115 G 6
61° 22'N, 139° 19'W

M. Turnbull
Burwash Creek
1980, 1981, 1982

(9)
115 G 6
61° 22'N, 139° 17'W

J. Tardiff
Burwash Creek
1980, 1981

(10)
115 G 6
61° 22'N, 139° 16'W

Alsace Mining
Burwash Creek
1978, 1979, 1980
1981, 1982

(11)
115 G 6
61° 23'N, 139° 16'W

D. Miller
Burwash Creek
1979, 1980
1981, 1982

(12)
115 G 6
61° 23'N, 139° 15'W

L. Tremblay
2540 Whitehorse Ltd.
Burwash Creek
1978, 1979, 1980
1981, 1982

(13)
115 G 6
61° 23'N, 139° 15'W

F. Jones
Burwash Creek
1981, 1982

(14)
115 G 6
61° 23'N, 139° 14'W

Snag River Placers
W. Woolsey
Burwash Creek
1982

(15)
115 G 6
61° 25'N, 139° 14'W

JBSCH Mining
Burwash Creek
1979, 1980
1981, 1982

(16)
115 G 6
61° 25'N, 139° 14'W

G. Mogenson
Squirrel Creek
1980, 1981, 1982

(17)
115 G 6
61° 20'N, 139° 10'W

J. Simmons
Squirrel Creek
1978, 1979, 1980
1981, 1982

(18)
115 G 6
61° 20'N, 139° 19'W

G. LeMoignan
Squirrel Creek
1980, 1981, 1982

(19)
115 G 6
61° 20'N, 139° 19'W

T. Bradley
Squirrel Creek
1980, 1981, 1982

(20)
115 G 6
61° 19'N, 139° 08'W

K. Reimer
Squirrel Creek
1981, 1982

(21)
115 G 6
61° 19'N, 139° 07'W

P. van Klaveren
Squirrel Creek
1982

(22)
115 G 6
61° 18'N, 139° 07'W

Tic Construction
Squirrel Creek
1980, 1981, 1982

(23)
115 G 6
61° 17'N, 139° 06'W

Tic Construction
Ptarmigan Creek
1981, 1982

(24)
115 G 6
61° 16'N, 139° 10'W

F. Brown
Ptarmigan Creek
1981

(25)
115 G 6
61° 18'N, 139° 11'W

C. Eikland
C. Backstrom
Badlands Creek
1981, 1982

(26)
115 G 6
61° 18'N, 139° 13'W

VanBibber Placer Development
Badlands Creek
1981, 1982

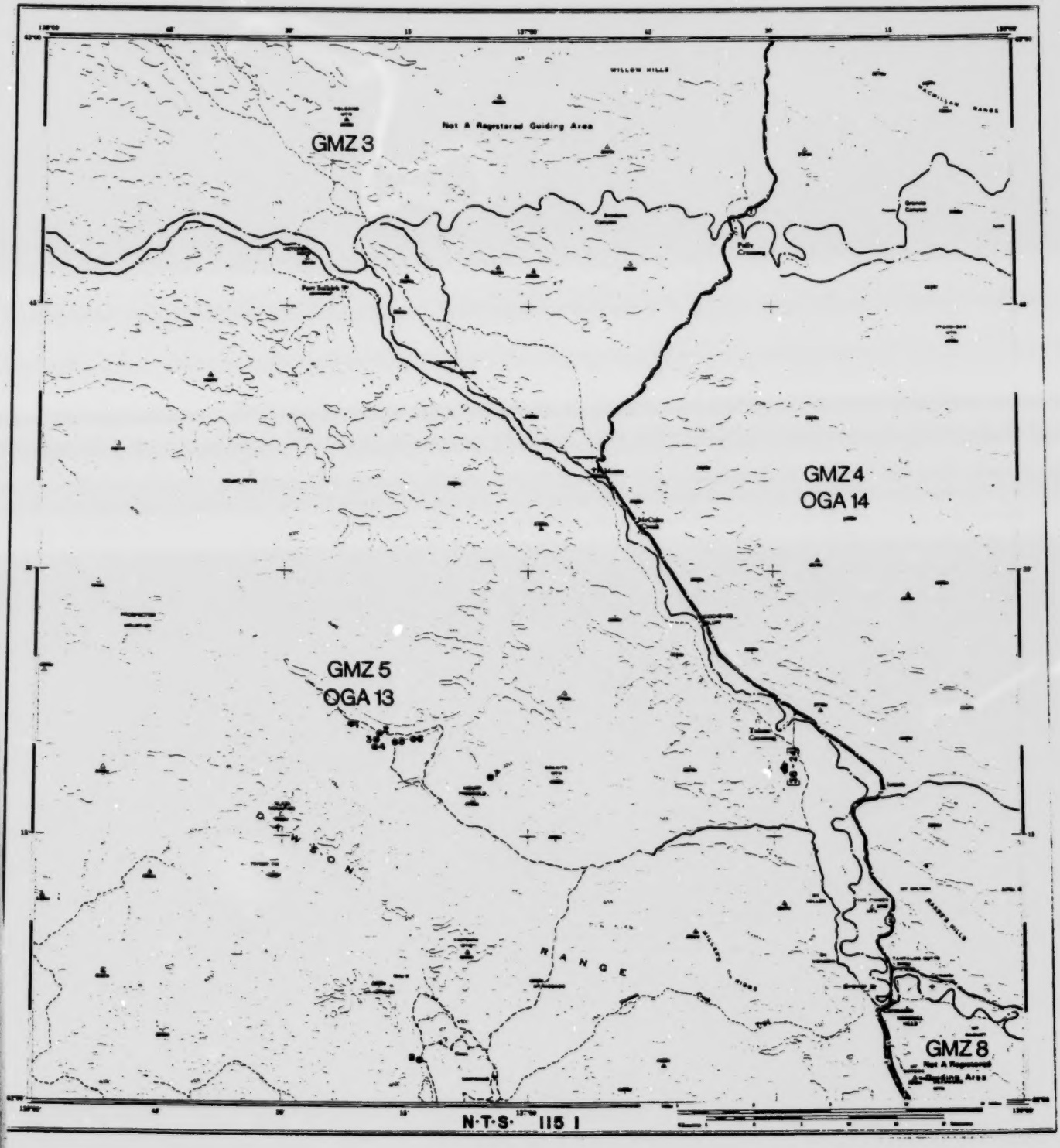
(27)
115 G 6
61° 18'N, 139° 14'W

P. Temple
Granite Creek
1981, 1982

(28)
115 G 6
61° 17'N, 139° 15'W

T. Churchill
D.A.S. Co. Ltd.
Sikanni Oilfield Construction Ltd.
1978, 1979, 1980
1981, 1982

(29)
115 G 1
61° 11'N, 138° 05'W


GMZ 3
Not A Registered Guiding Area
GMZ 4
OGA 14
GMZ 5
OGA 13
GMZ 8
N·T·S· 115 I

PLACER MINING OPERATIONS

N.T.S. 115 I

K. Wilson
R. Davy
Unnamed Creek
1979

(1)
115 I 6
62° 21'N, 137° 22'W

B. McCauley
Mechanic Creek
1980, 1981, 1982

(2)
115 I 6
62° 21'N, 137° 18'W

Guder Mining Exploration Ltd.
Mechanic Creek
1982

(3)
115 I 6
62° 20'N, 137° 19'W

R. Coles
Mechanic Creek
1982

(4)
115 I 6
62° 20'N, 137° 19'W

K. Djukastein
Revenue Creek
1978, 1979, 1980
1981, 1982

(5)
115 I 6
62° 20'N, 137° 16'W

J-Nor Enterprises
Happy Creek
1982

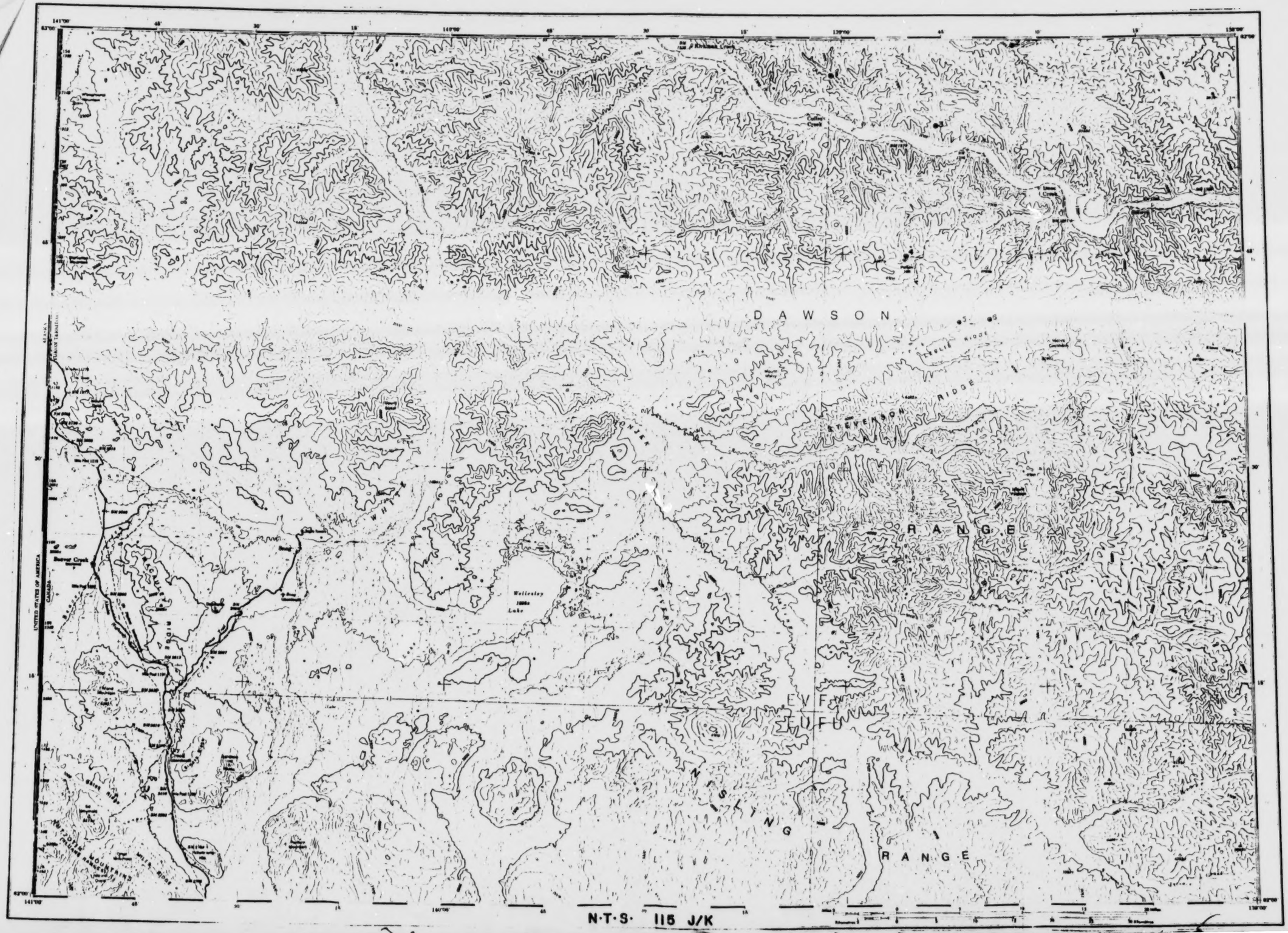
(6)
115 I 6
62° 21'N, 137° 14'W

K. Wilson
K. Djukestein
G. Wilson
R. Bardwell
Stoddart Creek
1980

(7)
115 I 6
62° 21'N, 137° 08'W

Ardill Construction Ltd.
Nansen Creek
1980, 1981, 1982

(8)
115 I 3
62° 03'N, 137° 13'W


DAWSON
RANGE
RANGE
N·T·S· 115 J/K

PLACER MINING OPERATIONS

N.T.S. 115 J/K

Van-Sea Investments Co. Ltd.
Ballarat Creek
1981, 1982

(1)
115 J 14
62° 58'N, 139° 02'W

Territorial Gold Placers Ltd.
Scroggie Creek
Mariposa Creek
1981

(2)
115 J 15
63° 00'N, 138° 34'W

Atlantic Energy Corp.
Pedlar Creek
1982

(3)
115 J 15
62° 54'N, 138° 46'W

P.J.J. Mining
Can-Pat Explorations Ltd.
Canadian Creek
Patton Gulch
1980, 1981, 1982

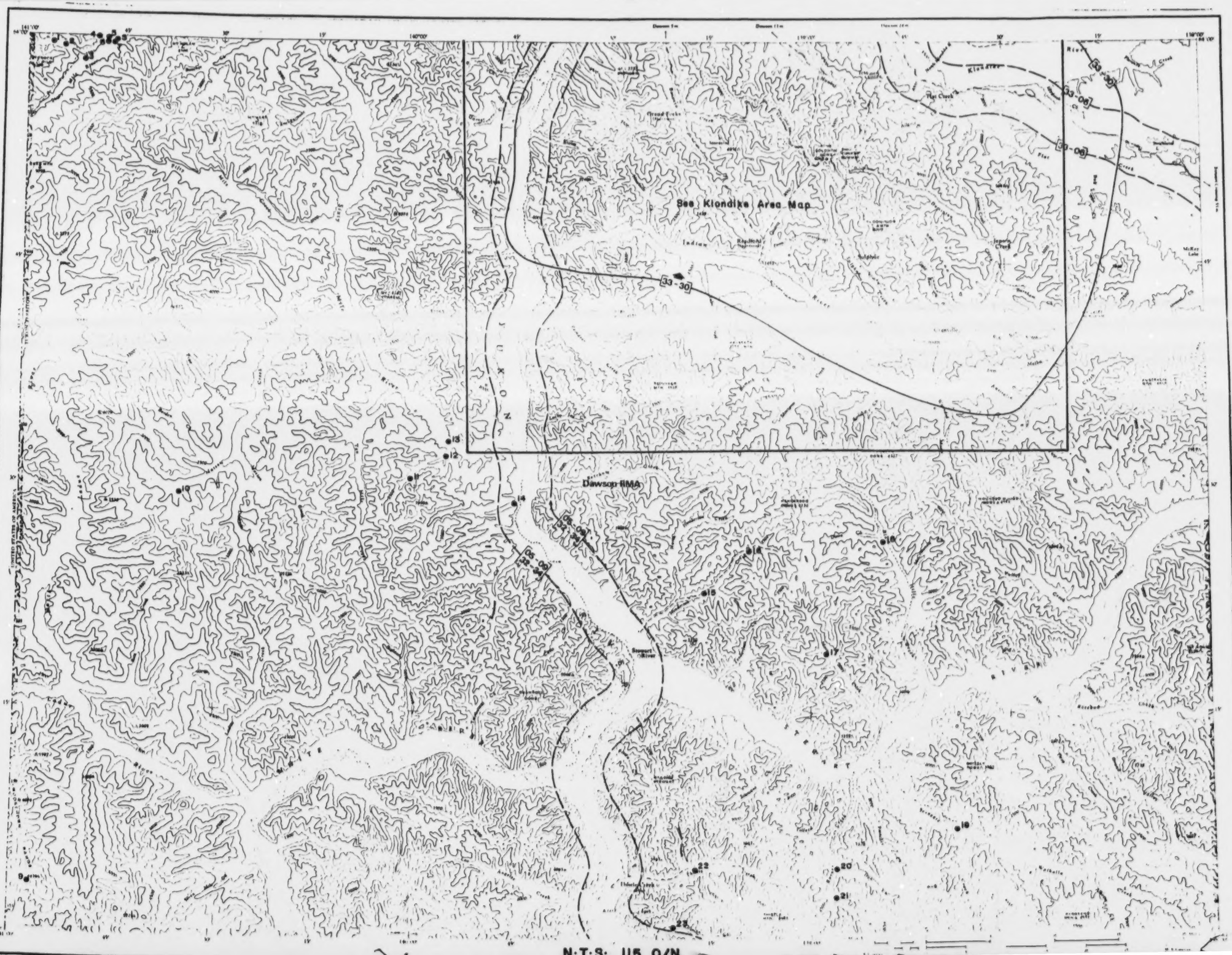
(4)
115 J 10
62° 45'N, 138° 51'W

Gold Creek Mining Ltd.
Rude Creek
Dip Creek
1981

(5)
115 J 10
62° 40'N, 138° 43'W

Gold Creek Mining Ltd.
Rude Creek
1980, 1981

(6)
115 J 10
62° 40'N, 138° 39'W


See Klondike Area Map
[33-30]
[33-06]
[33-06]
[33-06]
Klondike River
Indian River
Sulphur Creek
Hunker Creek
Bonanza Creek
Eldorado Creek
Gold Run Creek
Dominion Creek
Quartz Creek
Australia Gulch
Dawson RMA
YUKON
Dawson
Klondike
Indian
Sulphur
Hunker
Bonanza
Eldorado
Gold Run
Dominion
Quartz
Australia
McKay Lake
Stewart River
Flat
Creek
River
Ridge
Mountains
Hills
Lake
Flats
Valley
Gulch
Mine
Mines
Dredge
Tailings
Ditch
Trail
Road
Cabin
Camp
Airstrip
Airport
Bridge
Ferry
Cemetery
Church
Hospital
Post Office
Telegraph
Power Line
Pipeline
Boundary
Claim
Claims
Placer
Lode
Quartz
Gravel
Sand
Bedrock
Overburden
Muck
Pay
Barren
Frozen
Thawed
Permafrost
Muskeg
Swamp
Bog
Timber
Brush
Willow
Alder
Spruce
Poplar
Birch
Tamarack
Grass
Meadow
Pasture
Hay
Crop
Garden
Orchard
Fence
Gate
Corral
Barn
Shed
Warehouse
Store
Hotel
Restaurant
Saloon
Dance Hall
Theatre
Library
School
Jail
Courthouse
Police
Fire
Water
Well
Spring
Reservoir
Tank
Pump
Engine
Boiler
Steam
Electric
Generator
Transformer
Switch
Fuse
Wire
Cable
Conduit
Pole
Tower
Guy
Anchor
Insulator
Arm
Crossarm
Pin
Bolt
Nut
Washer
Screw
Nail
Spike
Staple
Hook
Eye
Ring
Chain
Link
Rope
Knot
Splice
Tie
Wrap
Coil
Reel
Spool
Drum
Pulley
Sheave
Block
Tackle
Fall
Hoist
Winch
Crane
Derrick
Boom
Mast
Gin
Pole
Skid
Sled
Runner
Track
Wheel
Axle
Bearing
Hub
Spoke
Rim
Tire
Tube
Valve
Cap
Stem
Core
Tread
Sidewall
Bead
Flap
Patch
Plug
Repair
Vulcanize
Rubber
Latex
Natural
Synthetic
Compound
Carbon
Black
Oil
Extender
Accelerator
Activator
Retarder
Antioxidant
Antiozonant
Wax
Resin
Tackifier
Plasticizer
Softener
Filler
Reinforcing
Agent
Curing
Vulcanizing
Sulfur
Peroxide
Resin
Metal
Oxide
Zinc
Magnesium
Lead
Iron
Steel
Wire
Cord
Fabric
Textile
Cotton
Rayon
Nylon
Polyester
Aramid
Glass
Fiber
Yarn
Twist
Ply
Cord
Construction
Belt
Breaker
Bead
Apex
Chafer
Liner
Inner
Outer
Carcass
Body
Tread
Base
Cap
Groove
Rib
Lug
Block
Shoulder
Sidewall
Bead
Flap

PLACER MINING OPERATIONS

N.T.S. 115 O/N

B. Stone
Bedrock Creek
1978, 1979, 1980
1981, 1982

(1)
115 N 15
63° 59'N, 140° 56'W

S. Prohaska
Bedrock Creek
1978, 1979, 1980
1981, 1982

(2)
115 N 15
63° 59'N, 140° 54'W

M. Kirkman
Sixty Mile River
1979

(3)
115 N 15
63° 58'N, 140° 52'W

W. Yaremcio
Capital Dynamics
Miller Creek
1978, 1979, 1980
1981, 1982

(4)
115 N 15
64° 00'N, 140° 49'W

Chumar Placers
Miller Creek
1981, 1982

(5)
115 N 15
64° 00'N, 140° 48'W

Brisebois Brothers Construction
Miller Creek
1982

(6)
115 N 15
64° 00'N, 140° 48'W

Brisebois Brothers Construction
Sixty Mile River
Miller Creek Ditch
1978, 1979, 1980
1981, 1982

(7)
115 N 15
64° 00'N, 140° 47'W

M. Brisebois
Sixty Mile River
Miller Creek Ditch
1981, 1982

(8)
115 N 15
64° 00'N, 140° 47'W

Claymore Resources Ltd.
Goldwin Joint Venture
Kenyon Creek
1978, 1979, 1980
1981, 1982

(9)
115 N 2
63° 03'N, 140° 57'W

Goldmark Minerals
Matson Creek
1979, 1980
1981, 1982

(10)
115 N 7
63° 29'N, 140° 36'W

Frazer Resources Ltd.
Ten Mile Creek
1981, 1982

(11)
115 N 9
63° 30'N, 140° 01'W

N.B. Cook Crop.
Ten Mile Creek
1978, 1979, 1980
1981, 1982

(12)
115 O 12
63° 32'N, 139° 55'W

RPM Mining
Sixty Mile River
1980, 1981

(13)
115 O 12
63° 33'N, 139° 55'W

L. Johnson
W. Treris
Enchantment Creek
1978, 1979, 1980
1981, 1982

(14)
115 O 5
63° 29'N, 139° 45'W

Territorial Gold Placers Ltd.
Henderson Creek
1978, 1979
1980, 1981

(15)
115 O 6
63° 23'N, 139° 16'W

Territorial Gold Placers Ltd.
Henderson Creek
1978, 1979
1980, 1981

(16)
115 O 6
63° 26'N, 139° 10'W

Maisy May Mines
Maisy May Creek
1980, 1981, 1982

(17)
115 O 7
63° 19'N, 138° 58'W

Territorial Gold Placers Ltd.
Black Hills Creek
1978, 1979
1980, 1981

(18)
115 O 7
63° 26'N, 138° 49'W

H. Axel
Scroggie Creek
1980, 1981

(19)
115 O 2
63° 07'N, 138° 39'W

Lee's Jade and Opals Ltd.
Queenstake Resources Ltd.
Barker Creek
1979, 1980
1981, 1982

(20)
115 O 2
63° 05'N, 138° 57'W

Barker Creek Placer
Exploration Co.
Barker Creek
1982

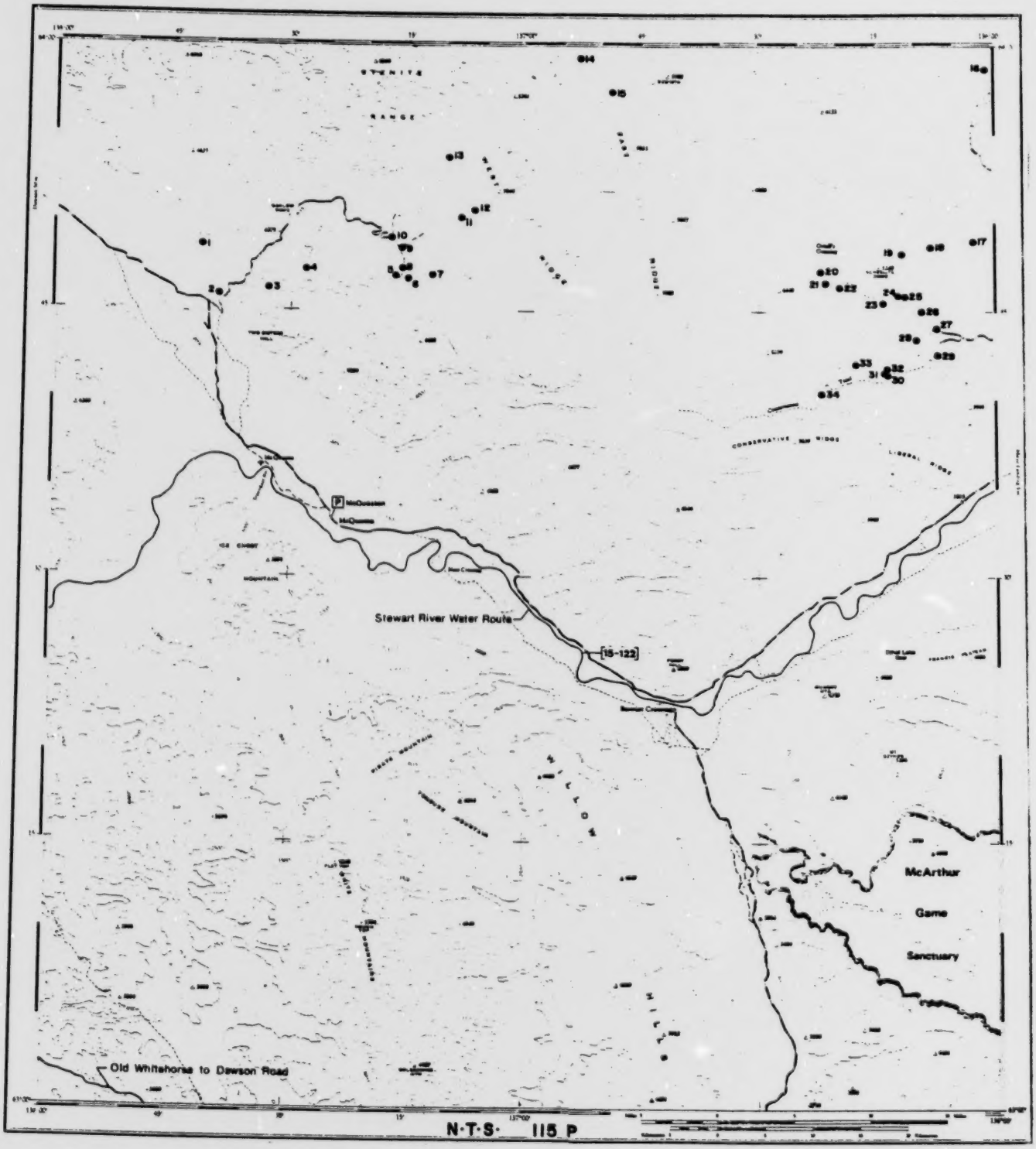
(21)
115 O 2
63° 02'N, 138° 57'W

Goldmark Minerals
Thistle Creek
1980, 1981, 1982

(22)
115 O 3
63° 05'N, 139° 17'W

Goldmark Minerals
Kirkman Creek
1980, 1981

(23)
115 O 3
63° 01'N, 139° 20'W


Stewart River Water Route
[15-122]
McArthur
Game
Sanctuary
Old Whitehorse to Dawson Road
N·T·S· 115 P

PLACER MINING OPERATIONS

N.T.S. 115 P

Dawson Mining Equipment Ltd. (1)
D. Bverge 115 P 13
Zinc Creek 63° 49'N, 137° 42'W
1981, 1982

Litchfield Mining (2)
Barlow Creek 115 P 13
1982 63° 46'N, 137° 39'W

Crescent Mines (3)
Punters Gold Explorations 115 P 13
Clear Creek 63° 46'N, 137° 33'W
1979, 1980
1981, 1982

Squaw Creek Mining (4)
Squaw Creek 115 P 14
1980, 1981, 1982 63° 47'N, 137° 28'W

Sundance Gold Ltd. (5)
Clear Creek 115 P 14
1981 63° 47'N, 137° 17'W

Queenstake Resources Ltd. (6)
Clear Creek 115 P 14
1980, 1981, 1982 63° 47'N, 137° 15'W

R. Lazotte (7)
W. Genier 115 P 14
Clear Creek 63° 47'N, 137° 12'W
1979, 1980, 1981

General Mining (8)
Clear Creek 115 P 14
1982 63° 47'N, 137° 16'W

W. Scott (9)
L. Loge 115 P '4
Barney Pup 63° 49'N, 137° 16'W
1978, 1979

W. Scott
L. Loge
Clear Creek
1978

(10)
115 P 14
63° 49'N, 137° 17'W

Blackstone Placer Mining Ltd.
N. Harper
Clear Creek
1978, 1979, 1980
1981, 1982

(11)
115 P 14
63° 50'N, 137° 08'W

T. Bazylinsky
Clear Creek
1979, 1980, 1981

(12)
115 P 14
63° 51'N, 137° 07'W

C. Zalinko
Arch Creek Mining Ltd.
Josephine Creek
1979, 1980
1981, 1982

(13)
115 P 14
63° 54'N, 137° 10'W

A. Genier
Arizona Creek
Hobo Creek
1979, 1980, 1981

(14)
115 P 15
63° 59'N, 136° 53'W

Tamandara Resources Ltd.
Gem Creek
1978, 1979, 1980
1981, 1982

(15)
115 P 15
63° 57'N, 136° 49'W

Canada Tungsten Mining Corp. Ltd.
Secret Creek
Swede Creek
1982

(16)
115 P 16
63° 59'N, 136° 01'W

Paydirt Holdings
Seattle Creek
1980, 1981

(17)
115 P 16
63° 49'N, 136° 02'W

Stardust Mining Ltd.
Morrison Creek
1981, 1982

(18)
115 P 16
63° 49'N, 136° 08'W

R. Beach
Morrison Creek
1981, 1982

(19)
115 P 16
63° 48'N, 136° 12'W

Bardusan Placer Ltd.
Johnson Creek
1980, 1981, 1982

(20)
115 P 16
63° 47'N, 136° 22'W

C & I Construction Ltd.
Johnson Creek
1978, 1979
1980, 1982

(21)
115 P 16
63° 47'N, 136° 21'W

C & I Construction Ltd.
Sabbath Creek
1981

(22)
115 P 16
63° 46'N, 136° 20'W

D. Szutiak
Highet Creek
1981

(23)
115 P 16
63° 45'N, 136° 14'W

F. Erl
Highet Creek
1978, 1979, 1980
1981, 1982

(24)
115 P 16
63° 46'N, 136° 12'W

W. Gordon
W. Tuck
Highet Creek
1978, 1979, 1980
1981, 1982

(25)
115 P 16
63° 46'N, 136° 12'W

Bleiler Placers Ltd.
Highet Creek
1978, 1979, 1980
1981, 1982

(26)
115 P 9
63° 45'N, 136° 09'W

J. Sveen
Highet Creek
1981, 1982

(27)
115 P 9
63° 44'N, 136° 08'W

Peter Kiss Oilfield Construction Limited
T. Takis
E. Sevosik
McIntyre Creek
1981, 1982

(28)
115 P 9
63° 44'N, 136° 10'W

Wild Boar Enterprises
Minto Creek
1980, 1981

(29)
115 P 9
63° 43'N, 136° 07'W

Peter Kiss Oilfield Construction Limited
McLagan Creek
1981

(30)
115 P 9
63° 42'N, 136° 14'W

M. Stewart
McLagan Creek
1982

(31)
115 P 9
63° 42'N, 136° 14'W

M. Pilote
McLagan Creek
1981

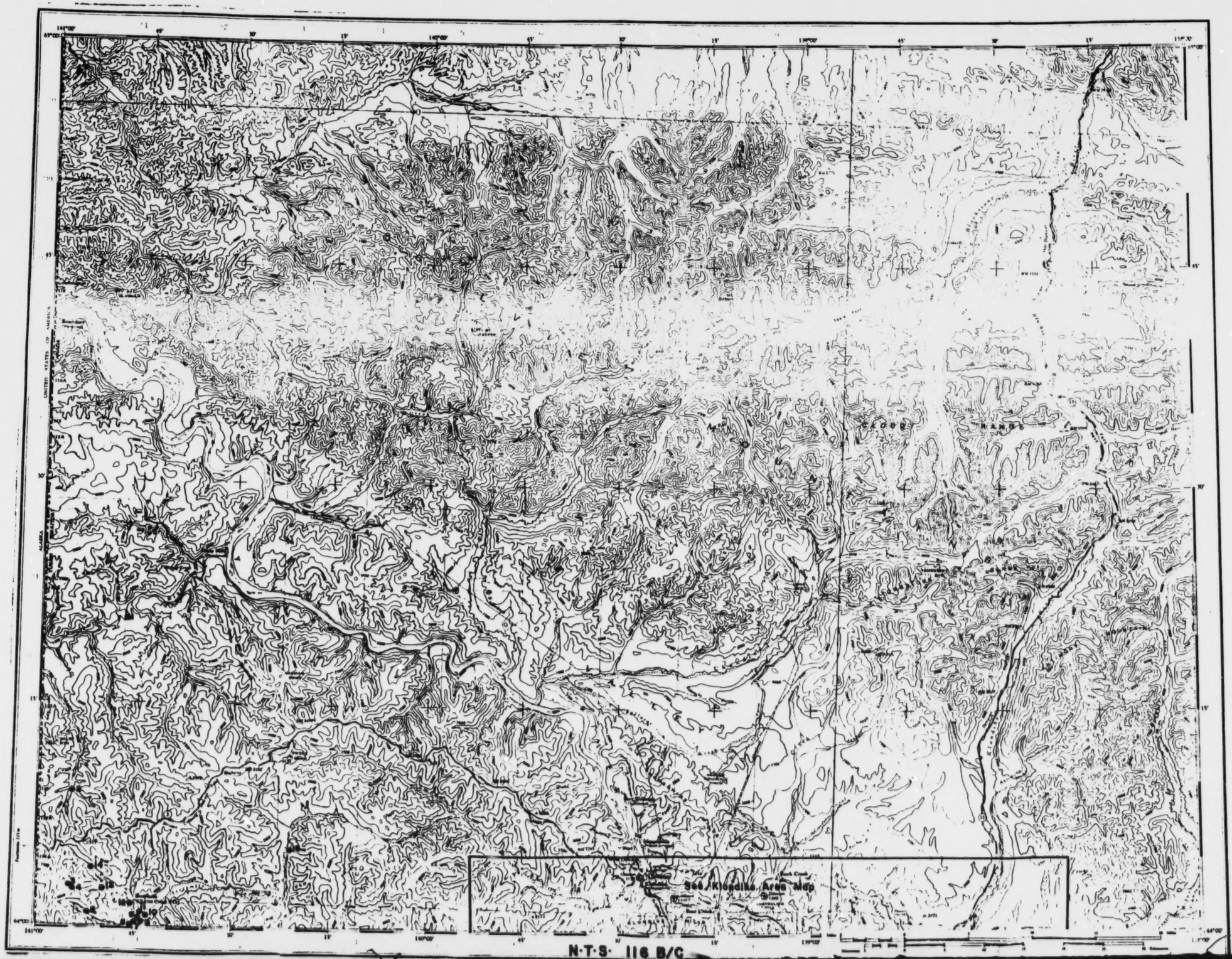
(32)
115 P 9
63° 42'N, 136° 14'W

W. Tuck
Carlson Creek
1978, 1979, 1980
1981, 1982

(33)
115 P 9
63° 42'N, 136° 18'W

P. Tierman
R. Holway
D. Duensing
Bear Creek
1979, 1980, 1981

(34)
115 P 9
63° 40'N, 136° 22'W


N·T·S· 116 B/C

PLACER MINING OPERATIONS

N.T.S. 116 B/C

Sikanni Oilfield Construction Ltd. Fortymile River 1982	(1) 116 C 7 64° 21'N, 140° 48'W
J. Malfair Moose Creek 1981, 1982	(2) 116 C 2 64° 09'N, 140° 55'W
M. Olsson Glacier Creek 1982	(3) 116 C 2 64° 02'N, 140° 55'W
Unknown Glacier Creek 1982	(4) 116 C 2 64° 03'N, 140° 55'W
Capital Dynamics Miller Creek 1982	(5) 116 C 2 64° 01'N, 140° 52'W
M. Connors C. McDougall Sixty Mile River 1981, 1982	(6) 116 C 2 64° 00'N, 140° 44'W
L. Haner Sixty Mile River Miller Creek Ditch 1979, 1980 1981, 1982	(7) 116 C 2 64° 00'N, 140° 45'W
M. Connors C. McDougall Sixty Mile River 1979	(8) 116 C 2 64° 00'N, 140° 46'W
C. McDougall Sixty Mile River 1982	(9) 116 C 2 64° 00'N, 140° 44'W

Cogasa Mining Corp.
B.E.L. Yukon Establishment
Sixty Mile River
1978, 1979, 1980
1981, 1982

(10)
116 C 2
64° 01'N, 140° 43'W

Fellhawk Placers
Sixty Mile River
Big Gold Creek
1978, 1979, 1980
1981, 1982

(11)
116 C 2
64° 01'N, 140° 44'W

Glacier Creek Placers
Glacier Creek
1978, 1979

(12)
116 C 2
64° 02'N, 140° 46'W

Glacier Creek Gold Co.
Glacier Creek
1978, 1979 1980
1981, 1982

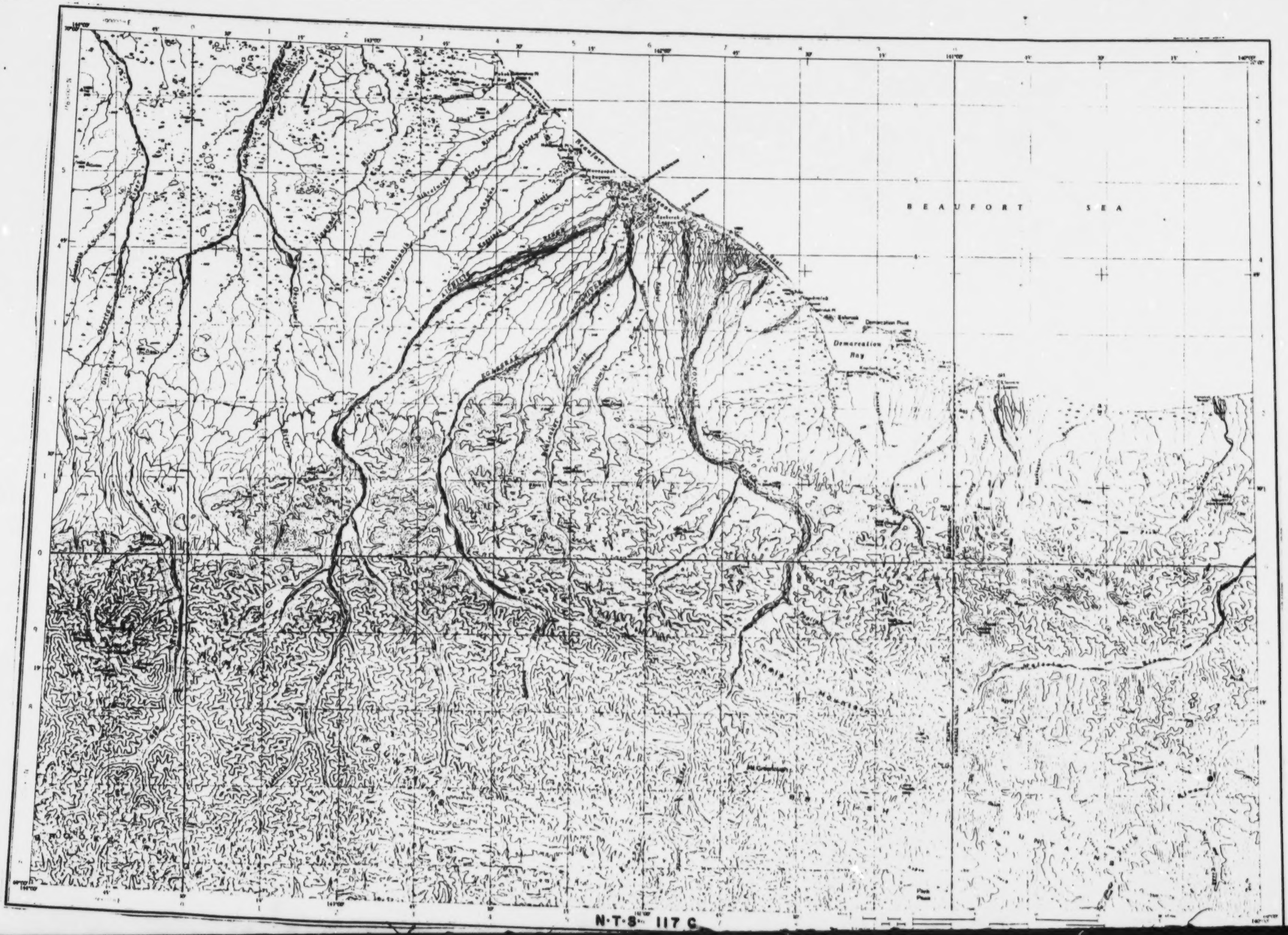
(13)
116 C 2
64° 02'N, 140° 50'W

Kotsem Resources
V. Trainer
Little Gold Creek
1981, 1982

(14)
116 C 2
64° 04'N, 140° 51'W

Panterra Resources
2870 Yukon Ltd.
California Creek
1981, 1982

(15)
116 C 1
64° 05'N, 140° 21'W


BEAUFORT SEA
Demarcation Point
Demarcation Bay
Barrow
Point Barrow
Wainwright
Icy Reef
Kogru River
Meade River
Ikpikpuk River
Colville River
Itkillik River
Anaktuvuk River
Chandler River
Killik River
Alatna River
Koyukuk River
Dietrich River
Ocsenduk River
Hogatza River
Kanuti River
Bonanza Creek
Hughes
Allakaket
Bettles
Evansville
Wiseman
Coldfoot
Arctic Village
Venetie
Fort Yukon
Chalkyitsik
Rampart
Stevens Village
Minto
Nenana
Tanana
Manley Hot Springs
Livengood
Fairbanks
Eagle
Circle
Central
Delta Junction
Tok
Northway
Tetlin
Tanacross
Dot Lake
Healy
Cantwell
Glennallen
Gulkana
Paxson
Summit
Chitina
Valdez
McCarthy
Kennecott
Copper Center
Tazlina
Slana
Nabesna
Mentasta Lake
Dot Lake
Tok
Northway
Tetlin
Tanacross
Eagle
Circle
Central
Delta Junction
Fairbanks
Livengood
Manley Hot Springs
Tanana
Nenana
Minto
Stevens Village
Rampart
Chalkyitsik
Fort Yukon
Venetie
Arctic Village
Coldfoot
Wiseman
Evansville
Bettles
Allakaket
Hughes
Bonanza Creek
Kanuti River
Hogatza River
Dietrich River
Ocsenduk River
Koyukuk River
Alatna River
Killik River
Chandler River
Anaktuvuk River
Itkillik River
Colville River
Ikpikpuk River
Meade River
Kogru River
Icy Reef
Point Barrow
Wainwright
Barrow
Demarcation Bay
Demarcation Point
BEAUFORT SEA

N·T·S· 117 C

PLACER MINING OPERATIONS

N.T.S. 117 C

R. Parkes
Sheep Creek
1978, 1979, 1980
1981, 1982

(1)
117 C 1
69° 10'N, 140° 09'W

Klondike Mgp Area
YUKON

PLACER MINING OPERATIONS

KLONDIKE AREA

K.Tatow
4-M Mining
Hunker Creek
1978, 1979, 1980
1981, 1982

(1)
116 B 3
(Klondike)
64° 01'N, 139° 10'W

J. Hua
Hunker Creek
1982

(2)
116 B 3
(Klondike)
64° 01'N, 139° 09'W

J. Alton
Hunker Creek
1981

(3)
116 B 3
(Klondike)
64° 01'N, 139° 09'W

J. Hanulik
Hunker Creek
1978, 1979, 1980
1981, 1982

(4)
116 B 3
(Klondike)
64° 01'N, 139° 08'W

Miben Mining
J. Simcox
G. Lee
T. Gilchrist
Preido Mines Ltd.
Main Street Mining
Hunker Creek
1978, 1979, 1980
1981, 1982

(5)
116 B 3
(Klondike)
64° 01'N, 139° 07'W

P. Favron
Hunker Creek
1980, 1981

(6)
116 B 3
(Klondike)
64° 01'N, 139° 07'W

H. Hanulik
Hunker Creek
1981, 1982

(7)
116 B 3
(Klondike)
64° 01'N, 139° 07'W

Miben Mining
Hunker Creek
1979, 1980,
1981, 1982

(8)
116 B 3
(Klondike)
64° 00'N, 139° 07'W

I. Bremner
Last Chance Creek
1978, 1979, 1980
1981, 1982

(9)
115 O 14
(Klondike)
64° 00'N, 139° 07'W

Preido Mines Ltd.
Hunker Creek
1981, 1982

(10)
116 B 3
(Klondike)
64° 00'N, 139° 06'W

T. Kosuta
*Savoya Hill Mines
Northwest Consolidated Industries Ltd.
Hunker Creek
1978, 1979, 1980
1981, 1982

(11)
116 B 3
(Klondike)
64° 00'N, 139° 05'W

F. Oblak
Hunker Creek
1978, 1979, 1980
1981, 1982

(12)
115 O 14
(Klondike)
63° 59'N, 139° 03'W

Tamarack Resources
Hunker Creek
1982

(13)
115 O 14
(Klondike)
63° 59'N, 139° 03'W

L. Perunovic
G. Crawford
Hunker Creek
1981, 1982

(14)
115 O 14
(Klondike)
63° 59'N, 139° 03'W

T. Fritz
Hester Creek
1982

(15)
115 O 14
(Klondiike)
63° 59'N, 139° 04'W

Klonidke Vault Placers
D. Laurenson
Independence Creek
1980, 1982

(16)
115 O 14
(Klondike)
63° 59'N, 139° 01'W

D. Gould
Hunker Creek
1982

(17)
115 O 15
(Klondike)
63° 58'N, 139° 00'W

J. Gould
Hunker Creek
1980, 1982

(18)
115 O 15
(Klondike)
63° 58'N, 139° 00'W

J. Fraser
A. Close
Hunker Creek
1979, 1980
1981, 1982

(19)
115 O 15
(Klondike)
63° 58'N, 138° 59'W

Gold Bottom Placers
Gold Bottom Creek
1978, 1979, 1980
1981, 1982

(20)
115 O 15
(Klondike)
63° 57'N, 138° 58'W

O. Lunde
Gold Bottom Creek
1978, 1979, 1980
1981, 1982

(21)
115 O 15
(Klondike)
63° 57'N, 138° 59'W

M. Crockett
Gold Bottom Creek
1978, 1979, 1980

(22)
115 O 15
(Klondike)
63° 55'N, 138° 59'W

B & H Mining
Gold Bottom Creek
1979, 1980
1981, 1982

(23)
115 O 15
(Klondike)
63° 53'N, 138° 59'W

G. Shaw
Rogers Gulch
1978, 1979, 1980
1981, 1982

(24)
115 O 15
(Klondike)
63° 57'N, 138° 54'W

J. Erickson
H. Liedtke
Hunker Creek
1978, 1979
1980, 1981

(25)
115 O 15
(Klondike)
63° 56'N, 138° 54'W

R. Ukrainetz
Hunker Creek
1980, 1981, 1982

(26)
115 O 15
(Klondike)
63° 54'N, 138° 53'W

D. Gritzka
Magnum Enterprises
Hunker Creek
1981, 1982

(27)
115 O 15
(Klondike)
63° 54'N, 138° 54'W

G. Ahnert
Hunker Creek
1980, 1981, 1982

(28)
115 O 15
(Klondike)
63° 55'N, 138° 54'W

P. Erickson
D. Gritzka
Hunker Creek
1978, 1979
1980, 1981

(29)
115 O 15
(Klondike)
63° 54'N, 138° 54'W

G. Hakonson
C. Ashley
S. Widmeyer
Hunker Creek
1978, 1979, 1981

(30)
115 O 15
(Klondike)
63° 54'N, 138° 55'W

P. Erickson
Hunker Creek
1981, 1982

(31)
115 O 15
(Klondike)
63° 53'N, 138° 55'W

B. Oud
Allgold Creek
1978, 1979

(32)
115 O 15
(Klondike)
63° 54'N, 138° 44'W

J. Alton
Allgold Creek
1982

(33)
115 O 15
(Klondike)
63° 55'N, 138° 40'W

M. Kinakin
Allgold Holdings Ltd.
Allgold Creek
1978, 1979, 1980
1981, 1982

(34)
115 O 15
(Klondike)
63° 55'N, 138° 40'W

Klondike Vault Mining
K. Adams
Dominion Creek
1979, 1980
1981, 1982

(35)
115 O 15
(Klondike)
63° 52'N, 138° 55'W

I. Hamilton
Dominion Creek
1978, 1979, 1980
1981, 1982

(36)
115 O 15
(Klondike)
63° 51'N, 138° 54'W

Gem Resources
Dominion Creek
1979, 1980

(37)
115 O 15
(Klondike)
63° 51'N, 138° 50'W

Gem Resources
Territorial Gold Placers
Dominion Creek
1978, 1979
1980, 1981

(38)
115 O 15
(Klondike)
63° 51'N, 138° 49'W

Airgold Ltd.
J. Brown
Dominion Creek
1981

(39)
115 O 15
(Klondike)
63° 51'N, 138° 49'W

Airgold Ltd.
J. Brown
W. Israel
Caribou Creek
1978, 1979, 1980
1981, 1982

(40)
115 O 15
(Klondkie)
63° 50'N, 138° 49'W

Allgold Placers
J. Stuart
Caribou Creek
1978, 1979, 1980
1981, 1982

(41)
115 O 15
(Klondike)
63° 49'N, 138° 50'W

Ballarat Mines Ltd.
K. Tatlow
Dominion Creek
1978, 1979, 1980
1981, 1982

(42)
115 O 15
(Klondike)
63° 50'N, 138° 48'W

J.P. Taylor
Dominion Creek
1979, 1980
1981, 1982

(43)
115 O 15
(Klondike)
63° 49'N, 138° 40'W

G. Bedard
Dominion Creek
1978, 1979, 1980

(44)
115 O 15
(Klondike)
63° 49'N, 138° 39'W

Ace Placer Mines
Dominion Creek
1978, 1979, 1980
1981, 1982

(45)
115 O 15
(Klondike)
63° 48'N, 138° 36'W

Ace Placer Mines
Dominion Creek
1980, 1981, 1982

(46)
115 O 15
(Klondike)
63° 47'N, 138° 35'W

G. Gatenby
L. Gatenby
Dominion Creek
1978, 1979, 1980
1981, 1982

(47)
115 O 15
(Klondike)
63° 47'N, 138° 34'W

J. Jellett
C. Simpson
Dominion Creek
1982

(48)
115 O 15
(Klondike)
63° 46'N, 138° 33'W

Dominion Placers
Forum Resources
3734 Yukon Ltd.
Kajo Placers
Dominion Creek
1980, 1981, 1982

(49)
115 O 15
(Klondike)
63° 46'N, 138° 33'W

D. Rintoul
S. Mynott
Gold Run Creek
1978, 1982

(50)
115 O 15
(Klondike)
63° 45'N, 138° 44'W

Consolidated Mines Yukon Ltd.
Ross Mining Services Ltd.
Gold Run Investment Crop.
Dominion Creek
1978, 1979
1980, 1981

(51)
115 O 10
(Klondike)
63° 41'N, 138° 36'W

J. Erickson
H. Liedtke
Dominion Creek
1982

(52)
115 O 10
(Klondike)
63° 38'N, 138° 41'W

Territorial Gold Placers
Kelsey Exploration
Eureka Creek
1978, 1979, 1980
1981, 1982

(53)
115 O 10
(Klondike)
63° 37'N, 138° 50'W

Hakkon Placers
Eureka Creek
1978, 1979, 1980
1981, 1982

(54)
115 O 10
(Klondike)
63° 34'N, 138° 54'W

Consolidated Mines Yukon Ltd.
Eureka Creek
1978, 1979, 1980
1981, 1982

(55)
115 O 10
(Klondike)
63° 34'N, 138° 51'W

D.Groner
Sulphur Creek
1980

(56)
115 O 10
(Klondike)
63° 41'N, 138° 46'W

J. Wierda
G. Kerr
P. Fauron
Sulphur Creek
1981, 1982

(57)
115 O 10
(Klondike)
63° 41'N, 138° 46'W

H. Kruger
Sulpher Creek
1978, 1979, 1980
1981, 1982

(58)
115 O 10
(Klondike)
63° 42'N, 138° 48'W

Granville Joint Venture
Teck Crop.
Sulphur Creek
1978, 1979, 1980
1981, 1982

(59)
115 O 10
(Klondike)
63° 43'N, 138° 49'W

Lucky Lady Placers
Sulphur Creek
1981, 1982

(60)
115 O 10
(Klondike)
63° 44'N, 138° 51'W

R. Gibson
D. Gritzka
Sulphur Creek
1978, 1979, 1980
1981, 1982

(61)
115 O 15
(Klondike)
63° 47'N, 138° 54'W

S. Rudniski
Sulphur Gold Placers Ltd.
Sulphur Creek
1978, 1979, 1980
1981, 1982

(62)
115 O 15
(Klondike)
63° 47'N, 138° 54'W

M. Crockett
Sulphur Creek
1978, 1979, 1980
1981, 1982

(63)
115 O 15
(Klondike)
63° 49'N, 138° 56'W

N. Sproffreeff
Sulphur Creek
1979, 1980
1981, 1982

(64)
115 O 15
(Klondike)
63° 49'N, 138° 56'W

D. Morgan
Green Gulch
1979, 1980
1981, 1982

(65)
115 O 15
(Klondike)
63° 50'N, 138° 54'W

K. Djukastein
Sulphur Creek
1978

(66)
115 O 15
(Klondike)
63° 50'N, 138° 55'W

N. Sprokkreeff
Sulphur Creek
1979, 1980, 1981

(67)
115 O 15
(Klondike)
63° 50'N, 138° 56'W

W. Rasmussen
Quartz Creek
1978, 1979, 1980
1981, 1982

(68)
115 O 14
(Klondike)
63° 49'N, 139° 04'W

Ballarat Mines Ltd.
Bennford Mining
Norvan Group
Quartz Creek
1978, 1979
1980, 1981

(69)
115 O 14
(Klondike)
63° 48'N, 139° 05'W

Airgold Ltd.
Ventures West Minerals Ltd.
Quartz Creek
1980, 1981, 1982

(70)
115 O 14
(Klondike)
63° 47'N, 139° 06'W

Risby & Sons Mining
Greenwall Bros. Construction
Indian River
1981, 1982

(71)
115 O 14
(Klondike)
63° 45'N, 139° 08'W

Greenwall Brothers Construction
Indian River
1982

(72)
115 O 11
(Klondike)
63° 45'N, 139° 05'W

White Channel Gold
Indian River
1982

(73)
115 O 11
(Klondike)
63° 44'N, 139° 04'W

J.P. Monfette
S. Downen
Eldorando Creek
1980, 1981

(74)
115 O 14
(Klondike)
63° 52'N, 139° 12'W

J.P. Monfette
Eldorado Creek
1978, 1979

(75)
115 O 14
(Klondike)
63° 52'N, 139° 13'W

G. Roe
Eldorado Creek
1979, 1980
1981, 1982

(76)
115 O 14
(Klondike)
63° 52'N, 139° 14'W

Eldorado Placers
Chief Gulch
Eldorado Creek
1978, 1979, 1980
1981, 1982

(77)
115 O 14
(Klondike)
63° 52'N, 139° 15'W

Bonanza Mining Company
Eldorado Creek
1980, 1981

(78)
115 O 14
(Klondike)
63° 52'N, 139° 15'W

Eldorado Mining
Eldorado Creek
1981, 1982

(79)
115 O 14
(Klondike)
63° 52'N, 139° 16'W

Beron Placers
Eldorado Creek
Gay Gulch
1978, 1979, 1980
1981, 1982

(80)
115 O 14
(Klondike)
63° 52'N, 139° 16'W

J. Vail
D. Keech
J. Simpson
Gay Gulch
1978, 1979, 1980
1981, 1982

(81)
115 O 15
(Klondike)
63° 53'N, 139° 15'W

W. Weigand
G. Caley
Eldorado Creek
1981

(82)
115 O 14
(Klondike)
63° 53'N, 139° 17'W

Klondike Mining Company
Eldorado Creek
1980, 1981

(83)
115 O 14
(Klondike)
63° 53'N, 139° 18'W

High Gravity Resources
Nugget Gulch
1982

(84)
115 O 14
(Klondike)
63° 53'N, 139° 18'W

Granville Placers
Eldorado Creek
1978, 1979
1980, 1981

(85)
115 O 14
(Klondike)
63° 53'N, 139° 18'W

G. Stephenson
Eldorado Creek
1981, 1982

(86)
115 O 14
(Klondike)
63° 53'N, 139° 18'W

J. Archibald
R. Archibald
Eldorado Creek
1978, 1979, 1980
1981, 1982

(87)
115 O 14
(Klondike)
63° 54'N, 139° 19'W

Elkhorn Resources
Tundra Contracting
Eldorado Creek
1980, 1981, 1982

(88)
115 O 14
(Klondike)
63° 54'N, 139° 19'W

E. Geese
Eldorado Creek
1981, 1982

(89)
115 O
(Klondike)
63° 55'N, 139° 19'W

King Solomon Mines
A. Fry
D. Fry
Eldorado Creek
1978, 1979, 1980

(90)
115 O 14
(Klondike)
63° 55'N, 139° 20'W

J.P. Monfette
Ready Bullion Gulch
1981, 1982

(91)
115 O 14
(Klondike)
63° 53'N, 139° 09'W

D. Coombs
Ready Bullion Gulch
Bonanza Creek
1978, 1979, 1980
1981, 1982

(92)
115 O 14
(Klondike)
63° 53'N, 139° 08'W

Bonnar and Young Mining Co.
Bonanza Creek
1980

(93)
115 O 14
(Klondike)
63° 54'N, 139° 08'W

A. Conway
Northwest Consolidated Industries Ltd.
Bonanza Creek
1978, 1979, 1980

(94)
115 O 14
(Klondike)
63° 55'N, 139° 09'W

J. Bryde
Bonanza Creek
1982

(95)
115 O 14
(Klondike)
63° 55'N, 139° 09'W

J. Langevin
Victoria Gulch
1978, 1979, 1980
1981, 1982

(96)
115 O 14
(Klondike)
63° 55'N, 139° 13'W

W. Hawkes
Victoria Gulch
1979, 1980

(97)
115 O 14
(Klondike)
63° 54'N, 139° 13'W

L. Vezina
Victoria Gulch
1981

(98)
115 O 14
(Klondike)
63° 54'N, 139° 13'W

D. Fosse
Victoria Gulch
1981

(99)
115 O 14
(Klondike)
63° 54'N, 139° 13'W

L. Beck
Victoria Gulch
1981, 1982

(100)
115 O 14
(Klondike)
63° 54'N, 139° 13'W

G. Anderson
Victoria Gulch
1980, 1981, 1982

(101)
115 O 14
(Klondike)
63° 54'N, 139° 13'W

P. Geysler
Victoria Gulch
1981, 1982

(102)
115 O 14
(Klondike)
63° 54'N, 139° 14'W

F. Chapil
Prince Albert Mines
Bonanza Creek
1979, 1980, 1981

(103)
115 O 14
(Klondike)
63° 55'N, 139° 13'W

Klondike Mining
Bonanza Creek
1979, 1980

(104)
115 O 14
(Klondike)
63° 55'N, 139° 14'W

Kolody Enterprises
Bonanza Creek
1981

(105)
115 O 14
(Klondike)
63° 55'N, 139° 15'W

Klondike Mining
Bonanza Creek
1980

(106)
115 O 14
(Klondike)
63° 55'N, 139° 15'W

Mac-Bry Mines
Bonanza Creek
Gauvin Gulch
1978, 1979, 1980
1981, 1982

(107)
115 O 14
(Klondike)
63° 55'N, 139° 16'W

W. Hinnek
F. Berger
Bonanza Creek
1980, 1981, 1982

(108)
115 O 14
(Klondike)
63° 55'N, 139° 18'W

K. Daunt
Bonanza Creek
Skookum Gulch
1978, 1979, 1980
1981, 1982

(109)
115 O 14
(Klondike)
63° 55'N, 139° 20'W

J. Waiste
Bonanza Creek
Little Skookum Gulch
1978, 1979
1980, 1981

(110)
115 O 14
(Klondike)
63° 56'N, 139° 21'W

King Solomon Mines
A. Fry
D. Fry
Bonanza Creek
1980, 1981, 1982

(111)
115 O 14
(Klondike)
63° 56'N, 139° 21'W

G. Caley
Adams Creek
1978, 1979
1980, 1982

(112)
115 O 14
(Klondike)
63° 55'N, 139° 22'W

H. Yoder
Adams Creek
1978, 1979, 1980
1981, 1982

(113)
115 O 14
(Klondike)
63° 55'N, 139° 23'W

W. Weigand
Adams Creek
1980

(114)
115 O 14
(Klondike)
63° 55'N, 139° 23'W

K. Sigurdson
Northwest Consolidated
Industries Ltd.
Bonanza Creek
1979, 1980

(115)
115 O 14
(Klondike)
63° 56'N, 139° 19'W

Hawk Mining Co.
Bonanza Creek
Fox Gulch
1978, 1979
1981, 1982

(116)
115 O 14
(Klondike)
63° 57'N, 139° 21'W

Cadillac Exploration Ltd.
Bonanza Creek
1981

(117)
115 O 14
(Klondike)
63° 57'N, 139° 22'W

High Gravity Resources Ltd.
Boulder Creek
1982

(118)
115 O 14
(Klondike)
63° 57'N, 139° 26'W

R. Troberg
Bonanza Creek
1981, 1982

(119)
115 O 14
(Klondike)
63° 58'N, 139° 22'W

D. Edwards
Bonanza Creek
49 Gulch
1982

(120)
115 O 14
(Klondike)
63° 58'N, 139° 22'W

K.M.A. Mines
Klondike Mining Company
Bonanza Creek
1978, 1979, 1980
1981, 1982

(121)
115 O 14
(Klondike)
63° 59'N, 139° 21'W

Unknown
Bonanza Creek
1981

(122)
115 O 14
(Klondike)
63° 59'N, 139° 21'W

K & K Mining
Bonanza Creek
1980, 1981, 1982

(123)
115 O 14
(Klondike)
63° 59'N, 139° 22'W

C. Nicholson
Bonanza Creek
1981, 1982

(124)
115 O 14
(Klondike)
63° 00'N, 139° 21'W

S. Berg
C. Nicholson
Bonanza Creek
1979, 1980
1981, 1982

(125)
115 O 14
(Klondike)
64° 00'N, 139° 22'W

K. Masters
C. Meredith
Bonanza Creek
1980, 1981, 1982

(126)
116 B 3
(Klondike)
64° 00'N, 139° 21'W

Arctic Eldorado Mining co.
Bonanza Creek
1980, 1981

(127)
116 B 3
(Klondike)
64° 01'N, 139° 16'W

P. Foth
Trail Gulch
1979, 1980
1981, 1982

(128)
116 B 3
(Klondike)
64° 01'N, 139° 21'W

B. Abel
Bonanza Creek
1979

(129)
116 B 3
(Klondike)
64° 01'N, 139° 23'W

C. Nicholson
Bonanza Creek
1978

(130)
116 B 3
(Klondike)
64° 01'N, 139° 21'W

Sigma Resources
Bonanza Creek
1982

(131)
116 B 3
(Klondike)
64° 01'N, 139° 21'W

C. Nicholson
Bonanza Creek
1979

(132)
116 B 3
(Klondike)
64° 01'N, 139° 21'W

Arctic Rim Operators Ltd.
Norwest Placer Operators Ltd.
Universal Explorations Ltd.
Klondike River
1980, 1981, 1982

(133)
116 B 3
(Klondike)
64° 02'N, 139° 21'W

C. Canadian
Crescent Mines
Westwardlands Ltd.
Klondike River
1978, 1981, 1982

(134)
116 B 3
(Klondike)
64° 03'N, 139° 26'W

PLACER MINING OPERATIONS IN ATLIN MINING DIVISION, BRITISH COLUMBIA

Placer mining activity in the Atlin Mining Division also increased during the period 1978 to 1982. Incomplete records, and a lack of field examinations of placer mining operations between 1978 and 1981 make it difficult to provide quantitative information about the placer mining industry during those years. The counts of mining operations and employees tabulated below are "best guesstimates" based on available information.

SCALE OF PLACER MINING INDUSTRY IN ATLIN MINING DIVISION, B.C., 1978 - 1982

Year	Count of Mining Operations	Count of Employees
1978	12	24
1979	20	55
1980	35	102
1981	40	112
1982	31	78

The locations of known placer mining operations in the Atlin Mining Division during the period 1978-1982 are shown on the following maps. Each operation is again indicated by a numbered dot, and has information concerning the operation listed on a legend following the map. Descriptions of individual deposits, mining, and processing methods at each site, and the size of each operation are not listed. They will be included in the report "Yukon Placer Mining Industry, 1978 - 1982" which is to be released during the summer of 1983.

G. Crawford
Arctic Rim Operators
218171 B.C. Co. Ltd.
Bear Creek
1979, 1980, 1981

(135)
116 B 3
(Klondike)
64° 01'N, 139° 14'W

D. Johnson
Goldfield Canada
Bear Creek
1978, 1979
1980, 1981

(136)
116 B 3
(Klondike)
64° 00'N, 139° 14'W

Bear Creek Ventures
Bear Creek
1982

(137)
115 O 14
(Klondike)
63° 58'N, 139° 13'W

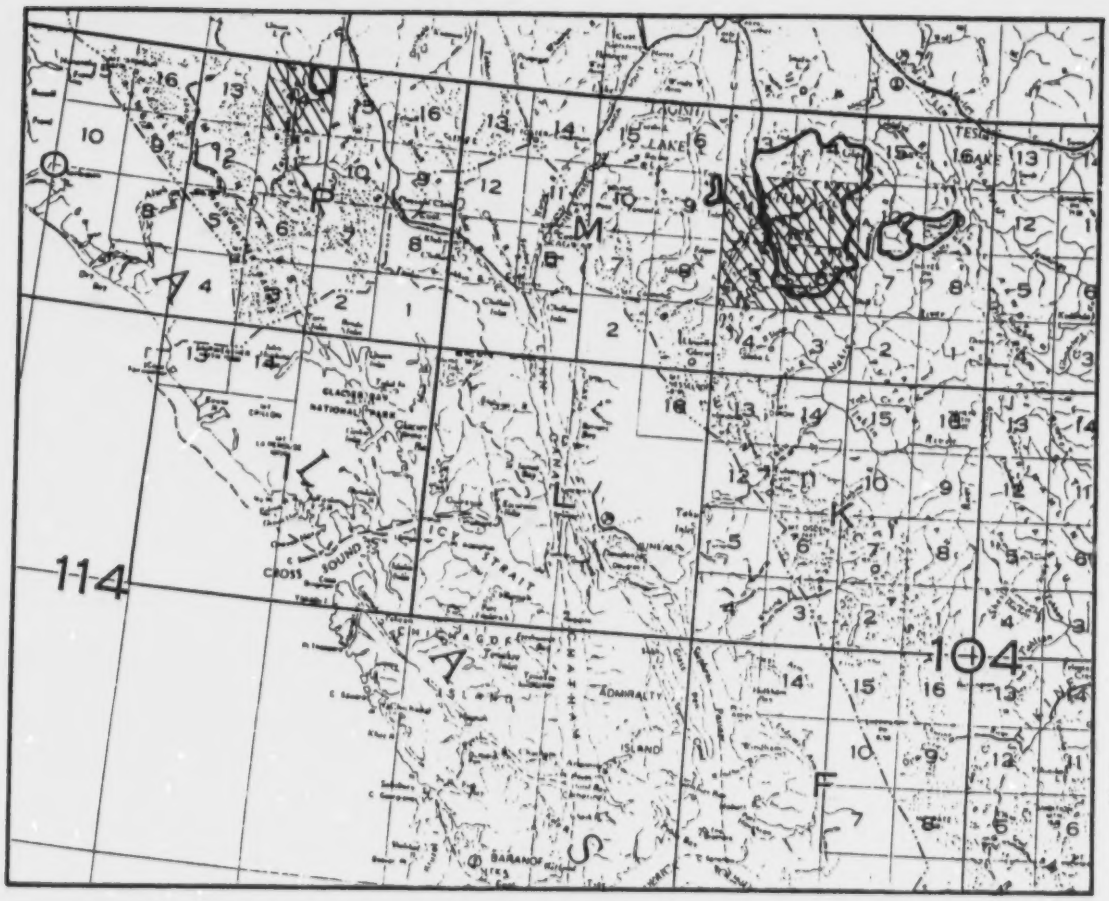


Figure 1: Index map to designated placer areas in Atlin Mining Division. N.T.S. areas in which placer mining operations occur are shaded.

104 N
CANADA
FIRST EDITION
104
N·T·S 1:250 000 = 104 N

PLACER MINING OPERATIONS

N.T.S. 104 N

P. Ford
J. Florence
Spruce Creek
1980, 1981, 1982

(1)
104 N 12
59° 38'N, 133° 36'W

R. Cofer
Spruce Creek
1982

(2)
104 N 12
59° 35'N, 133° 34'W

F. Madigan
Spruce Creek
1981, 1982

(3)
104 N 12
59° 35'N, 133° 36'W

R. Cattermole
R. Hill
L. Mear
Atlin Mountain Mining
Spruce Creek
1981, 1982

(4)
104 N 12
59° 34'N, 133° 35'W

A. Irving
Spruce Creek
1981, 1982

(5)
104 N 12
59° 37'N, 133° 34'W

W. Fell
Spruce Creek
1982

(6)
104 N 11
59° 33'N, 133° 29'W

W. Fell
Spruce Creek
1981

(7)
104 N 11
59° 33'N, 133° 28'W

Atlin Mountain Mining
Spruce Creek
1981

(8)
104 N 11
59° 32'N, 133° 26'W

Y. Trudeau
Dominion Creek
1980 .

(9)
104 N 12
59° 31'N, 133° 31'W

Eldorado McKee Mining
McKee Creek
1980, 1981, 1982

(10)
104 N 5
59° 28'N, 133° 32'W

J. Williams
ABC Mining
McKee Creek
1981, 1982

(11)
104 N 5
59° 28'N, 133° 33'W

R. Fredrickson
Wilson Creek
1981, 1982

(12)
104 N 6
59° 21'N, 133° 28'W

O. Anderson
Burdette Creek
1980

(13)
104 N 6
59° 22'N, 133° 27'W

M. Sherman
Wilson Creek
1980, 1981, 1982

(14)
104 N 6
59° 24'N, 133° 23'W

Turner Energy
Bull Creek
1981, 1982

(15)
104 N 6
59° 29'N, 133° 08'W

O. Berg
O'Donnel River
1981, 1982

(16)
104 N 11
59° 31'N, 133° 13'W

Wright Creek
A. Diduck
1980, 1981, 1982

(17)
104 N 11
59° 35'N, 133° 19'W

P. Matson
Wright Creek
1981, 1982

(18)
104 N 11
59° 35'W, 133° 19'W

L. Hodgson
Wright Creek
1980, 1981

(19)
104 N 11
59° 35'N, 133° 20'W

A. Knippel
Otter Creek
1982

(20)
104 N 11
59° 35'N, 133° 23'W

Atlin Drain Lease
R. Day
Otter Creek
1979, 1980
1981, 1982

(21)
104 N 11
59° 38'N, 133° 24'W

R. McIntyre
Wright Creek
1981, 1982

(22)
104 N 11
59° 38'N, 133° 21'W

T. Sandor
Ruby Creek
1979, 1980
1981, 1982

(23)
104 N 11
59° 40'N, 133° 20'W

J. Florence
Ruby Creek
1982

(24)
104 N 11
59° 40'N, 133° 20'W

W. Boyko
Oron Construction Ltd.
Boulder Creek
1980, 1981, 1982

(25)
104 N 11
59° 39'N, 133° 25'W

Decourcey Mining Co. Ltd.
Boulder Creek
1981, 1982

(26)
104 N 11
59° 39'N, 133° 25'W

A. Knippel
M. Goulding
Boulder Creek
1981, 1982

(27)
104 N 11
59° 39'N, 133° 25'W

D. Berry
Boulder Creek
1980

(28)
104 N 11
59° 39'N, 133° 24'W

A. Michie
Boulder Creek
1982

(29)
104 N 11
59° 38'N, 133° 24'W

A. Olson
Birch Creek
1981

(30)
104 N 11
59° 39'N, 133° 30'W

C. Schmidt
Birch Creek
1982

(31)
104 N 11
59° 38'N, 133° 30'W

A. Ellis
Birch Creek
1979, 1980
1981, 1982

(32)
104 N 11
59° 38'N, 133° 29'W

R. Foisy
Birch Creek
1980, 1981, 1982

(33)
104 N 11
59° 37'N, 133° 29'W

D. Thachuk
Pine Creek
1979, 1980
1981, 1982

(34)
104 N 12
59° 35'N, 133° 32'W

G. Yardley
Pine Creek
1979, 1980
1981, 1982

(35)
104 N 12
59° 35'N, 133° 33'W

A. DeAngelis
Pine Creek
1981, 1982

(36)
104 N 12
59° 35'N, 133° 33'W

J. James
T. Matson
Pine Creek
1978, 1979
1980, 1982

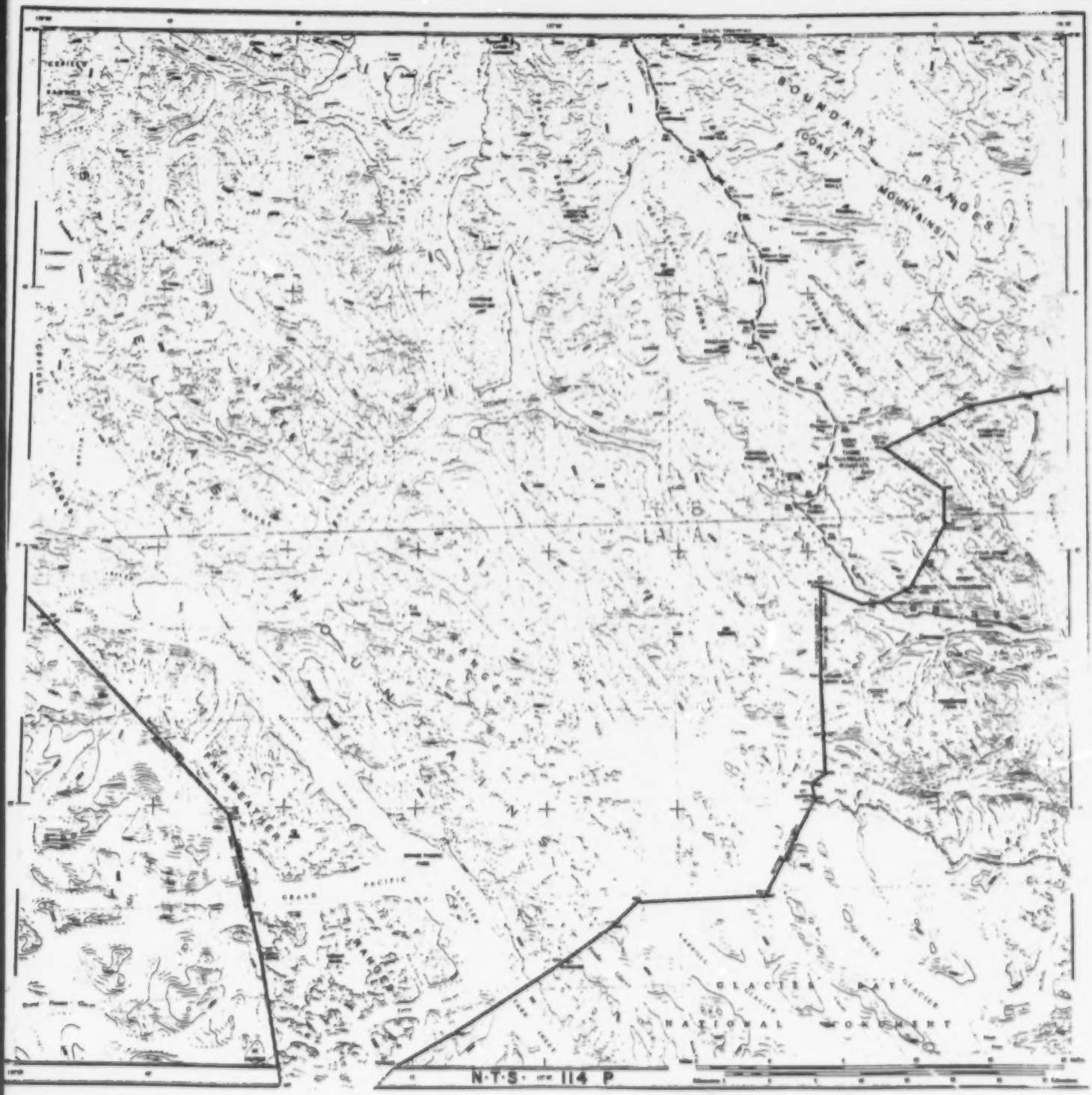
(37)
104 N 12
59° 35'N, 133° 34'W

E. Husselbee
Pine Creek
1980

(38)
104 N 12
59° 35'N, 133° 35'W

D. Budzinski
Fourth of July Creek
1982

(39)
104 N 12
59° 41'N, 133° 37'W


BOUNDARY
RANGES
COAST
MOUNTAINS
GLACIER BAY
NATIONAL MONUMENT
N·T·S· 114 P

PLACER MINING OPERATIONS

N.T.S. 114 P

Border Mining
C. Ross
Squaw (Dollis) Creek
1981, 1982

(1)
114 P 14
60° 00'N, 137° 06'W

PLACER GOLD PRODUCTION IN YUKON

The recorded production of gold from Yukon deposits since 1885 has been 11,187,525 ounces (347,965,585 grams) valued at $365,356,670. Much of the gold was recovered when the price of gold was $15. per ounce. If all the production had brought the price at the date of this report, approximately $500 U.S. per ounce, it would have been valued at $6,821,661,600.

As indicated in footnotes to the first table below, the recorded production of gold is based mainly on records of payments of a small royalty on gold. Raw gold used in jewellery is not subjected to the royalty. Gold which remains in Yukon is not subjected to royalty and, since producers are "on their honour" to report gold removed from Yukon and pay the royalty, it is generally assumed that an additional 25 to 50% of reported production is removed from the territory without having royalty paid on it or being recorded. Production figures therefore indicate only minimum production.

When recovered from placer deposits, gold is not "pure". It is a natural alloy of gold with silver and minor amounts of other metals. The gold content of crude or raw gold is called fineness. It is usually expressed as a three digit number representing parts per thousand of gold. Finenesses reported for gold from Yukon creeks range from 615 to 946. From 1.06 to 1.63 ounces (32.9 to 50.6 grams) of crude gold may be required to supply 1.00 ounce (31.1 grams) of pure gold. The fineness of crude gold is as important as its weight in determining its value. A list of finenesses reported for gold from Yukon creeks is given in the second table below.

Royalty records for the period 1978 to 1982 were examined in detail. Summaries of production from individual creeks were prepared. A trend evident in 1981 and 1982 rendered the summaries for those years of little use. Producers realized that although obliged by law to pay royalty on gold removed from Yukon, they were not obliged to reveal its source. The percentage of gold from various unknown creeks on which royalty was paid rose from 21% in 1978 and 20% in 1979 to 29% in 1980, 64% in 1981, and 80% in 1982. An examination of the data in the third table below, however, does point out several creeks which have been sources of significant amounts of gold during the past five years. Production figures in this table are for crude gold.

PLACER GOLD PRODUCTION FROM YUKON

Year*	Gold Production+ (fine ounces)	Gold Production+ (grams)	Value (Cdn Dollars)
1885 &			
1886 (a)	4,837	150,445	100,000.
1887 (a)	3,386	105,315	70,000.
1888 (a)	1,935	60,184	40,000.
1889 (a)	8,466	263,318	175,000.
1890 (a)	8,466	263,318	175,000.
1891 (a)	1,935	60,184	40,000.
1892 (a)	4,233	131,659	87,500.
1893 (a)	8,514	264,811	176,000.
1894 (a)	6,047	188,080	125,000.
1895 (a)	12,094	376,160	250,000.
1896 (a)	14,513	451,398	300,000.
1897 (a)	120,937	3,761,504	2,500,000.
1898 (a)	483,750	15,046,076	10,000,000.
1899 (a)	774,000	24,073,722	16,000,000.
1900 (a)	1,077,553	33,515,130	22,275,000.
1901 (a)	870,750	27,082,937	18,000,000.
1902 (a)	701,437	21,816,795	14,500,000.
1903 (a)	575,502	17,899,838	10,790,650.
1904	438,509	13,638,945	8,222,055.
1905	348,800	10,848,726	6,540,010.
1906	176,255	5,482,059	3,304,790.
1907	150,410	4,678,202	2,820,160.
1908	173,882	5,408,252	3,260,280.
1909	191,693	5,962,227	3,594,250.
1910	220,092	6,845,521	4,126,730.
1911	214,626	6,675,512	4,024,235.
1912	267,648	8,324,656	5,018,410.
1913	282,747	8,794,280	5,301,510.
1914	247,981	7,712,953	4,649,635.
1915	237,775	7,395,516	4,458,280.
1916	211,211	6,569,296	3,960,205.
1917	174,180	5,417,521	3,265,875.
1918	85,304	2,653,210	1,599,440.
1919	88,403	2,749,599	1,657,570.
1920	66,049	2,054,322	1,238,420.
1921	65,653	2,042,005	1,230,985.
1922	55,602	1,729,389	1,042,535.
1923	60,551	1,883,318	1,135,335.
1924	33,358	1,037,534	625,560.
1925	45,950	1,429,183	861,570.
1926	26,534	825,287	497,505.
1927	30,305	942,576	568,220.
1928	34,916	1,085,992	654,670.
1929	35,069	1,090,751	657,535.
1930 (a)	35,320	1,098,558	730,065.
1931 (a)	44,310	1,378,174	915,890.
1932 (a)	40,780	1,268,380	1,010,935.
1933 (a)	39,170	1,218,305	1,120,260.

Year*	Gold Production+ (fine ounces)	Gold Production+ (grams)	Value (Cdn Dollars)
1934 (a)	38,700	1,203,686	1,335,150.
1935	35,651	1,108,853	1,247,785.
1936	50,109	1,558,540	1,753,815.
1937	46,832	1,456,616	1,639,120.
1938	72,476	2,254,221	2,536,660.
1939	86,462	2,689,228	3,026,170.
1940	78,511	2,441,928	2,747,885.
1941	69,954	2,175,779	2,448,390.
1942	84,345	2,623,383	2,952,075.
1943	42,283	1,315,128	1,479,905.
1944	23,529	731,822	823,515.
1945	32,040	996,540	1,121,400.
1946	45,730	1,422,340	1,600,550.
1947	47,589	1,480,161	1,665,615.
1948	60,906	1,894,359	2,131,710.
1949	83,886	2,609,106	2,936,010.
1950	94,036	2,924,802	3,291,260.
1951	62,405	1,940,983	2,184,175.
1952 (a)	78,520	2,442,208	2,748,200.
1953 (a)	66,080	2,055,286	2,312,800.
1954 (a)	82,210	2,556,978	2,877,350.
1955	73,116	2,274,127	2,559,060.
1956	70,733	2,200,008	2,475,655.
1957	74,266	2,309,895	2,599,310.
1958	67,168	2,089,126	2,350,880.
1959	68,042	2,116,310	2,381,470.
1960	74,454	2,315,743	2,605,890.
1961	64,747	2,013,826	2,266,145.
1962	53,854	1,675,021	1,884,890.
1963	56,062	1,743,696	1,962,170.
1964	56,330	1,752,032	1,971,550.
1965	45,030	1,400,568	1,576,050.
1966	43,337	1,347,911	1,516,795.
1967	9,402	292,430	329,070.
1968	7,570	235,450	264,950.
1969	8,508	264,624	297,780.
1970	6,762	210,318	236,670.
1971	4,394	136,667	157,790.
1972	4,234	131,690	243,455.
1973	6,807	211,718	663,000.
1974	9,708	301,948	1,614,925.
1975	15,502	482,159	2,509,465.
1976	17,050	530,306	2,139,775.
1977	20,554	639,291	3,387,915.
1978	20,630	641,655	4,702,815.
1979	28,080	873,372	10,992,480.
1980	58,526	1,820,334	35,027,810.
1981	79,733	2,479,935	35,321,630.
1982	59,234	1,842,355	22,760,665.
TOTAL:	**11,187,525**	**347,965,585**	**365,356,670.**

* Production figures for 1885 to 1959 are for fiscal years, which are from April 1 of the year in question to March 31 of the following year. Production figures for 1960 to 1982 are for calendar years.

+ Gold production is listed in both fine ounces (Troy), and grams. Production figures for 1885 to 1902 are based primarily on receipts of gold at United States mints and receiving offices credited to the Yukon Territory. Although a royalty was extracted on the gold beginning in 1897, considerable amounts of gold were produced which escaped royalty payment especially during the years of high production. Between 1897 and 1902, royalty was paid in Yukon on approximately half the amount of gold credited to the territory at United States mints and receiving offices. Production figures for 1903 to 1982 are based on royalty records. The assumed gold fineness used in calculating fine gold content of crude gold on which royalty was paid is 800.

(a) Product figure is approximate.

FINENESS OF YUKON PLACER GOLD

Creek	Fineness
Adams Gulch	615-746
Allgold Creek	858
American Gulch	864
Anderson Creek (Fortymile Area)	720-728
Anderson Creek (Mayo Lake Area)	840
Ballarat Creek	852
Barker Creek	793-900
Bear Creek	644-746
Big Gold Creek	847-854
Black Hills Creek	750-855
Bonanza Creek Benches	
- American Hill	864
- Cheechako Hill	750-785
- King Solomon Hill	785-800
- Trail Hill	800-805
Bonanza Creek - Upper	809-827
- Middle	781
- Lower	739-798
Boulder Creek	800
Burwash Creek	871-876
Bullion Creek	871
Canadian Creek	864-883
Canyon Creek	825
Caribou Creek	816-840
Claffey Pup	750
Clear Creek	828-860
Davidson Creek	840
Dominion Creek - Upper	805-832
- Middle	817-849
- Lower	816-840
Dublin Gulch	860-923
Duncan Creek	792-802
Eighty Pup	797
Eldorado Creek Benches	
- Gold Hill	768
Eldorado Creek	733-803
Eureka Creek	677-745
Fortymile River	814-820
French Gulch	631-676
Gay Gulch	780
Gauvin Gulch	664
Glacier Creek	830-860
Gold Bottom Creek	780-800
Gold Run Creek	848-878
Goring Creek	738
Haggart Creek	885-895
Henderson Creek	725-730
Henry Gulch	832-845
Highet Creek	605-650

Creek	Fineness
Homeskake Gulch	663
Hunker Creek Benches	
- Dago Hill	798-859
- Paradise Hill	735-802
Hunker Creek - Lower	701-726
- Middle	725-820
- Upper	798-859
Independence Creek	780-794
Indian River	843
Irish Gulch	624-742
Jackson Gulch	829-842
Johnson Creek	760-820
Kirkman Creek	860-896
Lake Creek	895
Last Chance Creek	683-832
Ledge Creek	808-820
Lightning Creek	830
Livingstone Creek	880
Log Cabin Creek	850-895
Lombard Pup	860
Lovett Gulch	808-836
Little Blanche Creek	658
Mariposa Creek	900
Matson Creek	776
Miller Creek	827-857
Mint Gulch	851
Minto Creek	827-835
Montana Creek	770
Monte Cristo Gulch	784-796
Moose Creek (Fortymile Area)	855
Moosehorn Range	820
Oro Grande Gulch	775
Quartz Creek	732-795
Ready Bullion Creek	710-717
Scroggie Creek	900-905
Skookum Gulch	605
Sixtymile River	810
Steep Creek	931-946
Stewart River	837-850
Sulphur Creek - Upper	820-832
- Middle	790-813
- Lower	823-832
Squaw (Dollis) Creek	834
Ten Mile Creek	830-845
Thistle Creek	848-895
Thunder Gulch	790-825
Victoria Gulch	807-820

PLACER GOLD PRODUCTION FROM YUKON CREEKS, 1978 TO 1982

CREEK	1978 oz. dwt. (grams)	1979 oz. dwt. (grams)	1980 oz. dwt. (grams)	1981 oz. dwt. (grams)	1982 oz. dwt. (grams)
Adams Creek	7 07 (229)	8 13 (269)	184 00 (5723)	93 14 (2914)	233 11 (7264)
All Gold Creek	144 03 (4483)	218 06 (6790)	59 17 (1862)	44 05 (1376)	7 07 (229)
Anderson Creek	-- --	-- --	11 16 (367)	-- --	-- --
Arch Creek	-- --	-- --	2 16 (87)	-- --	-- --
Barker Creek	-- --	-- --	24 11 (764)	80 15 (2512)	162 00 (5039)
Bear Creek (Klondike area)	761 02 (23672)	146 07 (4552)	2830 03 (88026)	374 01 (11634)	22 00 (684)
Bear Creek (Mayo area)	-- --	-- --	-- --	130 03 (4048)	4 10 (140)
Bedrock Creek	27 11 (857)	14 06 (445)	99 19 (3109)	-- --	-- --
Big Creek (tributary)	20 12 (641)	-- --	-- --	-- --	-- --
Big Gold Creek	-- --	-- --	34 00 (1058)	-- --	-- --
Big Salmon River	-- --	10 00 (311)	-- --	-- --	-- --
Black Hills Creek	2234 01 (69486)	896 03 (27873)	2226 06 (69245)	66 01 (2054)	-- --
Black Hills, Henderson, and Eureka Creeks	-- --	2585 16 (80426)	2866 03 (89146)	-- --	-- --
Bonanza Creek - lower	468 11 (14573)	667 19 (20775)	1290 03 (40128)	862 18 (26839)	2323 10 (72268)
- upper	103 01 (3205)	960 05 (29867)	1563 04 (48620)	278 12 (8665)	272 05 (8468)
Burwash Creek	-- --	130 14 (4070)	189 07 (5889)	747 17 (23260)	18 04 (566)

CREEK	1978 oz. dwt. (grams)	1979 oz. dwt. (grams)	1980 oz. dwt. (grams)	1981 oz. dwt. (grams)	1982 oz. dwt. (grams)
Canadian Creek	10 02 (314)	0 17 (26)	-- --	104 18 (3263)	121 16 (3788)
Caribou Creek	33 10 (1042)	227 12 (7079)	693 19 (21584)	30 14 (955)	296 00 (9207)
Carlson Creek	-- --	-- --	48 12 (1512)	-- --	-- --
Clear Creek	384 11 (11961)	620 07 (19295)	938 09 (29189)	1984 18 (61736)	2247 06 (69898)
Cottoneva Creek	-- --	-- --	8 15 (272)	-- --	-- --
Davidson Creek	-- --	128 05 (3989)	2 01 (64)	-- --	-- --
Dawn Creek	-- --	4 00 (124)	-- --	11 15 (365)	-- --
Discovery Creek	-- --	-- --	20 08 (635)	-- --	-- --
Dollis (Squaw) Creek	-- --	258 14 (8046)	225 02 (7001)	239 12 (7452)	93 08 (2905)
Donjek River	-- --	-- --	23 12 (734)	-- --	-- --
Dominion Creek	177 02 (5508)	551 17 (17164)	2884 07 (89712)	3609 08 (112263)	761 07 (23680)
Dublin Gulch	776 19 (24165)	463 00 (14401)	410 00 (12752)	300 00 (9331)	-- --
Duncan Creek	594 11 (18492)	430 11 (13391)	506 15 (15761)	114 19 (3575)	771 07 (23991)
Eldorado Creek	737 07 (22934)	1042 02 (32412)	1783 07 (55468)	653 15 (20334)	631 16 (19651)
Eureka Creek	350 14 (10908)	1409 04 (43830)	2612 19 (81271)	1465 08 (45578)	3080 10 (95813)
Excelsior Creek	4 13 (145)	-- --	3 10 (109)	-- --	-- --
Flat Creek	-- --	-- --	10 10 (327)	-- --	-- --
Firth River	-- --	58 14 (1826)	190 00 (5910)	79 14 (2479)	-- --

CREEK	1978 oz. dwt. (grams)	1979 oz. dwt. (grams)	1980 oz. dwt. (grams)	1981 oz. dwt. (grams)	1982 oz. dwt. (grams)
Fourth of July Creek	-- --	-- --	-- --	1877 01 (58382)	7 12 (236)
Glacier Creek	219 01 (6813)	411 02 (12786)	251 04 (7813)	476 04 (14811)	-- --
Gold Bottom Creek	378 18 (11785)	24 02 (750)	1367 11 (42535)	433 01 (13469)	126 00 (3919)
Gold Run Creek	-- --	-- --	21 10 (669)	-- --	-- --
Haggart Creek	14 09 (449)	114 09 (3560)	-- --	4 00 (124)	170 15 (5311)
Hayes Creek	8 01 (250)	-- --	-- --	-- --	-- --
Henderson Creek	2873 15 (89382)	465 00 (14463)	2309 05 (71825)	88 13 (2757)	31 17 (991)
Highet Creek	143 13 (4468)	245 09 (7634)	142 12 (4435)	117 04 (3645)	49 00 (1524)
Hobo Creek	10 10 (327)	7 06 (227)	-- --	-- --	-- --
Hope Creek	-- --	8 05 (257)	-- --	-- --	-- --
Hunker Creek	1246 07 (38765)	2163 19 (67305)	2392 13 (74419)	1612 16 (50163)	282 02 (8774)
Johnson Creek	-- --	205 02 (6379)	231 11 (7202)	487 00 (15147)	-- --
Josephine Creek	-- --	-- --	16 12 (516)	12 12 (392)	-- --
Kimberly Creek	-- --	-- --	-- --	5 00 (156)	68 06 (2124)
Lake Creek	-- --	1 17 (58)	-- --	-- --	-- --
Last Chance Creek	75 00 (2333)	17 15 (552)	137 05 (4269)	-- --	-- --
Ledge Creek	-- --	4 05 (132)	-- --	-- --	-- --
Liard River	-- --	-- --	-- --	3 02 (96)	-- --

CREEK	1978 oz. dwt. (grams)	1979 oz. dwt. (grams)	1980 oz. dwt. (grams)	1981 oz. dwt. (grams)	1982 oz. dwt. (grams)
Lightning Creek	149 15 (4658)	-- --	4 08 (137)	-- --	-- --
Little Gold Creek	-- --	-- --	723 18 (22515)	754 02 (23455)	-- --
Livingstone Creek Area	4 00 (124)	48 03 (1498)	111 18 (3480)	77 16 (2555)	76 06 (2373)
Maisy May Creek	-- --	-- --	538 09 (16747)	301 14 (9384)	55 14 (1732)
Matson Creek	315 01 (9799)	1745 08 (54287)	2416 03 (75150)	458 14 (14267)	32 08 (1008)
McQuesten River	-- --	-- --	8 10 (264)	13 07 (415)	-- --
Miller Creek	64 05 (1998)	-- --	1188 08 (36963)	91 04 (2837)	599 01 (18632)
Minto Creek	42 02 (1309)	-- --	190 02 (5913)	208 17 (6496)	-- --
Moose Creek	-- --	254 14 (7922)	22 17 (711)	-- --	-- --
Moosehorn Range Creeks	4526 18 (140800)	2200 18 (68455)	1233 06 (38359)	2011 00 (62548)	-- --
Nansen Creek	-- --	-- --	7 19 (247)	53 05 (1656)	-- --
Oro Grande Creek	-- --	-- --	4 19 (154)	-- --	-- --
Quartz Creek	1194 15 (37160)	358 05 (11143)	2780 00 (86466)	1909 15 (59399)	100 04 (3117)
Revenue Creek	221 12 (6892)	321 00 (9984)	260 09 (8101)	888 16 (27644)	500 00 (15552)
Rude Creek	-- --	-- --	618 04 (19228)	104 09 (3249)	-- --
Scroggie Creek	-- --	-- --	32 13 (1016)	-- --	-- --
Seattle Creek	-- --	-- --	-- --	197 15 (6151)	-- --
Sheep Creek	-- --	-- --	7 13 (238)	-- --	-- --

CREEK	1978 oz. dwt. (grams)	1979 oz. dwt. (grams)	1980 oz. dwt. (grams)	1981 oz. dwt. (grams)	1982 oz. dwt. (grams)
Sixty Mile River	1130 18 (35174)	2070 10 (64339)	3213 05 (99942)	1691 05 (52603)	369 12 (11496)
Sonora Gulch	24 10 (762)	4 07 (135)	1 02 (34)	-- --	-- --
Squaw Creek (Clear Creek area)	-- --	-- --	-- --	-- --	10 00 (311)
Squirrel Creek	-- --	8 00 (249)	90 18 (2827)	131 14 (4096)	40 08 (1257)
Steep Creek	-- --	13 10 (420)	-- --	-- --	-- --
Stewart River	19 00 (591)	22 08 (697)	17 16 (554)	4 15 (148)	-- --
Stoddart Creek	-- --	-- --	-- --	39 19 (1243)	-- --
Sulphur Creek	-- --	36 00 (1120)	6903 18 (214732)	7153 00 (222480)	1119 09 (34818)
Ten Mile Creek	828 06 (25763)	550 16 (17132)	-- --	1190 05 (37020)	426 07 (13261)
Thistle Creek	-- --	-- --	1401 08 (43588)	2375 16 (73895)	34 00 (1058)
Thunder Gulch	-- --	-- --	9 19 (309)	-- --	-- --
Too Much Gold Creek	-- --	-- --	-- --	15 00 (467)	-- --
Various Creeks	5462 00 (169885)	12963 19 (403218)	22741 12 (707332)	63600 05 (1978159)	58897 07 (1831853)
Wheaton River	-- --	-- --	13 16 (429)	-- --	-- --
Total Ounces	25788 03 (802089)	35100 01 (1091717)	73158 02 (2275436)	99666 00 (3099912)	74042 05 (2302936)

PLACER GOLD PRODUCTION
IN ATLIN MINING DIVISION, BRITISH COLUMBIA

The recorded production of gold from Atlin Mining Division deposits since 1898 has been 615,234 ounces (19,135,618 grams) valued at $21,327,400. If all the production had brought the price at the date of this report, approximately $500. U.S. per ounce, it would have been valued at $375,142,590.

The recorded production of gold in the first table below is based on figures supplied by the Gold Commissioner in the area between 1898 and 1925, and by figures supplied by the Provincial Mineralogist or Mining Statistician since 1925. In recent years, figures supplied by the Mining Statistician have been based on responses to questionnaires concerning gold recovery mailed to persons thought to be placer mining. Such figures are incomplete. For example, in 1973 there were 8 placer mining operations employing 14 people in the Atlin Mining Division, but production for the year was reported to be nil. Production figures, especially those for years after 1925, therefore indicate only minimum production.

Placer gold recovered from creeks in the Atlin Mining Division has finenesses ranging from 743 to 890. A list of finenesses reported for gold from Atlin Mining Division creeks is given in the second table below.

Production records for the period 1898 to 1945 are available in some detail. The third table below indicates that Spruce, Pine, Boulder, Ruby, and McKee Creeks have been the most significant sources of gold in the Atlin Mining Division. The fourth table, which schematically shows production over intervals of five years from 1896 to 1945, indicates that Birch, Boulder, McKee, Otter, Pine, Spruce, and Wright Creeks have been the most constant sources of gold.

PLACER GOLD PRODUCTION FROM ATLIN MINING DISTRICT, BRITISH COLUMBIA

Years	Gold Production Atlin District Crude Ounces (grams)	Value $	Gold Production British Columbia Crude Ounces (grams)	Value $	Atlin Production as a % total B.C. Production
1856-1860	-	-	267,560 (8,321,918)	4,548,615.	0.0
1861-1865	-	-	968,455 (30,121,855)	16,463,639.	0.0
1866-1870	-	-	625,160 (19,444,351)	10,627,880.	0.0
1871-1875	-	-	531,510 (16,531,555)	9,035,683.	0.0
1876-1880	-	-	409,240 (12,728,591)	6,973,919.	0.0
1881-1885	-	-	249,690 (7,766,108)	4,244,977.	0.0
1886-1890	-	-	193,970 (6,033,048)	3,297,450.	0.0
1891-1895	-	-	121,910 (3,791,766)	2,072,667.	0.0
1896-1900[1]	42,445 (1,320,166)	721,132.	254,340 (7,910,737)	4,324,516.	16.7
1901-1905[2]	88,829 (2,762,848)	1,398,288.	305,200 (9,492,635)	5,188,260.	27.0
1906-1910	75,092 (2,335,586)	1,237,641.	202,380 (6,294,625)	3,440,400.	36.0
1911-1915	75,967 (2,362,801)	1,384,601.	166,270 (5,171,495)	2,826,500.	49.0
1916-1920	61,467 (1,911,808)	1,043,179.	112,040 (3,484,780)	1,904,600.	54.8
1921-1925	34,163 (1,062,571)	579,273.	101,346 (3,152,164)	1,722,842.	33.6
1926-1930[3]	15,187 (472,361)	256,215.	54,465 (1,694,024)	925,904.	27.7
1931-1935	47,609 (1,480,782)	1,169,697.	117,614 (3,658,148)	2,859,810.	40.9
1936-1940	90,807 (2,824,370)	2,677,728.	244,114 (7,592,677)	7,194,640.	37.2
1941-1945	71,428 (2,221,625)	2,294,006.	115,301 (3,586,207)	3,650,571.	62.8

Years	Gold Production Atlin District Crude Ounces (grams)	Value $	Gold Production British Columbia Crude Ounces (grams)	Value $	Atlin Production as a % total B.C. Production
1946-1950	18,907 (588,064)	576,116.	80,050 (2,489,795)	2,389,387.	24.1
1951-1955	45,144 (1,404,113)	1,307,235.	71,840 (2,234,439)	2,072,478.	63.1
1956-1960	6,999 (217,689)	195,426.	23,868 (742,366)	664,702.	29.4
1961-1965	3,571 (111,068)	104,798.	14,059 (437,277)	412,236.	25.4
1966-1970	201 (6,251)	5,857.	3,986 (123,976)	115,740.	5.1
1971	4 (124)	141.	177 (5,505)	4,647.	3.0
1972	66 (2,052)	1,848.	691 (21,492)	26,905.	6.9
1973	-	-	3,831 (119,155)	311,524.	0.0
1974	1,210 (37,634)	194,162.	1,452 (45,161)	232,512.	83.5
1975	596 (18,537)	98,205.	1,406 (43,730)	232,204.	42.3
1976	269 (8,366)	38,381.	838 (26,064)	115,613.	33.2
1977	901 (28,023)	189,278.	1,484 (46,156)	289,075.	65.5
1978	107 (3,328)	26,880.	1,174 (36,514)	295,001.	9.1
1979	1,908 (59,344)	763,144.	6,884 (214,113)	2,649,918.	28.8
1980	1,348 (41,926)	922,991.	9,006 (280,113)	6,213,376.	14.9
1981	3,551 (110,446)	1,702,439.	9,379 (291,715)	4,540,289.	37.5
1982					
Total (to 1981)	**745,738 (23,194,689)**	**21,327,400.**	**5,271,730 (163,966,620)**	**111,868,461.**	**19.1**

1. There are no production records for 1896 and 1897. The discovery of placer gold in the Atlin area was made in 1898.
2. There are no production records for 1901 for any creek except Gold Run, Otter, Spruce, Volcanic, and Willow Creeks.
3. Squaw (Dollis) Creek was discovered in 1927. There are no production records for it for 1929 or 1930.
4. Wide swings in production from year to year might be explained by the "unassigned" category in production records. Gold from undetermined localities in the province is included in this category. If gold from the Atlin District was included in this category in some years, and in the Atlin District category in other years, apparent variations in production would result.

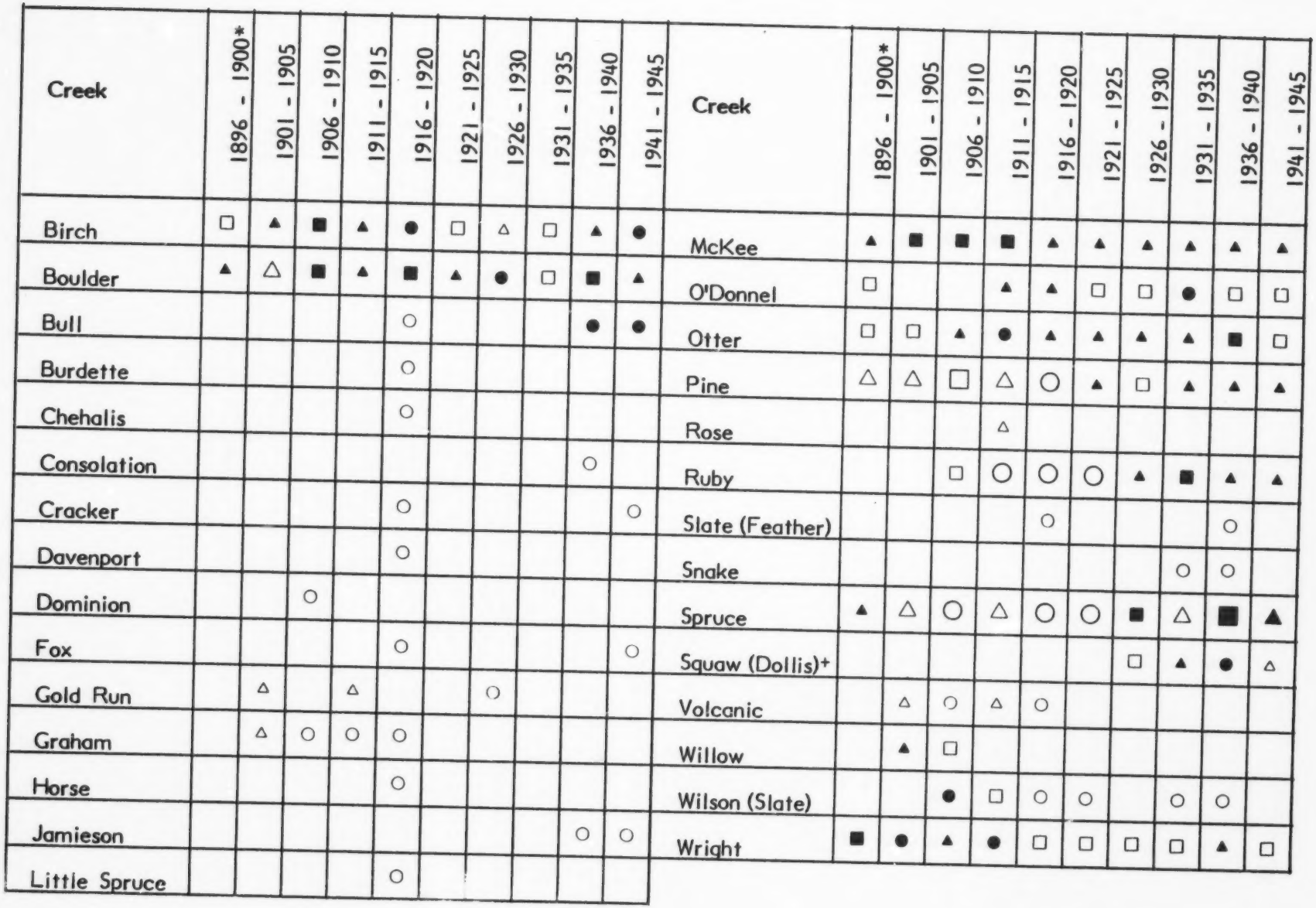
FINENESS OF ATLIN PLACER GOLD

Creek	Fineness
Boulder Creek	743-794
McKee Creek	831-834
O'Donnel River	805-807
Otter Creek	807-812
Pine Creek	806-818
Ruby Creek	800-808
Spruce Creek	809-890
Squaw (Dollis) Creek	834
Wright Creek	802-814

PLACER GOLD PRODUCTION FROM ATLIN MINING DIVISION CREEKS TO 1945

Creek	Production	
	ounces	grams
Birch Creek	12,438	386,859
Boulder Creek	61,719	1,919,646
Burdette (Jasper) Creek	14	435
Bull Creek	1,308	40,683
Chehalis (Lincoln) Creek	5	156
Consolation Creek	32	995
Cracker Creek	26	809
Davenport Creek	5	156
Dominion Creek	14	435
Fox Creek	28	871
Gold Run Creek	183	5,692
Graham Creek	123	3,826
Horse Creek	12	373
Jamieson Creek	14	435
Little Spruce Creek	13	404
McKee Creek	44,019	136,912
O'Donnel River	6,455	200,770
Otter Creek	22,135	688,465
Pine Creek	129,181	4,017,917
Rose Creek	59	1,835
Ruby Creek	55,338	1,721,178
Slate (Feather) Creek	11	342
Snake Creek	36	1,120
Spruce Creek	254,858	7,926,848
Squaw (Dollis) Creek	3,257	101,302
Volcanic Creek	155	4,821
Willow Creek	1,296	40,309
Wilson (Slate) Creek	1,571	48,863
Wright Creek	13,698	426,049

PLACER GOLD PRODUCTION FROM ATLIN MINING DIVISION CREEKS, 1896-1945



LEGEND

Ounces (X 1,000 Grams)	Ounces (X 1,000 Grams)	Ounces (X 1,000 Grams)	Ounces (X 1,000 Grams)
○ 0 - 50 (0 - 1.5)	● 500 - 1,000 (15 - 30)	○ 10,000 - 20,000 (300 - 600)	● 40,000-50,000 (1,200-1,500)
△ 50 - 100 (1.5 - 3.0)	▲ 1,000 - 5,000 (30 - 150)	△ 20,000 - 30,000 (600 - 900)	▲ 50,000-60,000 (1,500-1,800)
□ 100 - 500 (3.0 - 15)	■ 5,000 - 10,000 (150 - 300)	□ 30,000 - 40,000 (900 - 1,200)	■ 60,000-70,000 (1,800-2,100)

* The Atlin area placer deposits were discovered in 1898. There was no production in 1896 or 1897.

\+ Squaw (Dollis) Creek was discovered in 1927. No production figures are available for 1929 or 1930.

GEOLOGICAL SETTINGS OF PLACER DEPOSITS

The formation of placer deposits requires three things, which are a source of gold, a mechanism to concentrate it, and time for the concentrating mechanism to work.

In Yukon and the Atlin Mining Division of British Columbia, there are no known lode gold deposits associated with placer deposits which are large enough to have supplied the gold in the placers. There are, however, numerous small lode occurrences in close proximity to placer deposits. There are also associations between placer deposits and certain bedrock types including Klondike Schist, rocks of the Yukon Group, granitic rocks of the 100 million year suite, and ultramafic rocks. Concentration of even very small contents of gold from bedrock will provide large amounts of gold if the amount of bedrock involved is large enough.

Concentration of the gold occurs through erosion. Gold is chemically resistant, so does not decompose during weathering as do most other minerals. Concentrations of gold in residual deposits have been mined in Yukon at Kenyon Creek in the Moosehorn Range. Most placer deposits have, however, been further concentrated through the action of moving water in streams or on beaches. The current causes some material to be carried in suspension in water, and other material to roll or saltate along the bed of the stream or beach. Because gold is much heavier than other minerals it is not carried away by the current when other minerals are, and hence becomes concentrated in the deposits remaining on the bed of the stream or beach. The characterstics of the particular stream or beach environment impart characteristics to the concentrations of gold. For example, in deposits of braided streams, gold occurs erratically throughout the deposits, while in deposits of meandering streams it occurs in a distinct "pay-streak" at the base of the deposits.

The predominant geological process active in Yukon and the Atlin Mining District during the past 60 million years has been erosion. Huge volumes of material have been eroded. Eons in which gold contained in the material could be concentrated have passed. Placer gold deposits have formed.

After 60 million years, however, it can not be expected that all placer deposits will lie undisturbed in the valley bottoms of present-day creeks. Placer deposits may have been removed by normal processes of erosion, or lost to economic exploitation by deep burial under younger deposits.

In the Yukon River Basin, the most important agency in removal and burial of placer deposits was the repeated advance of the Cordilleran ice sheet across parts of the region. Ice up to 1500 metres (4925 feet) thick covered much of southern and central Yukon and northern British Columbia during each of four major ice advances. There is little chance that placer deposits survived the intense scouring which ocurred in deeply eroded glacial valleys. Gold in placer deposits present prior to glaciation would have been dispersed through such large volumes of glacial till and glaciofluvial gravel that the deposits would no long be economic. Post-glacial streams have reconcentrated gold distributed in some such deposists including those on the Stewart River near Mayo, and those on the upper reaches of creeks in the Atlin area. Small valleys oriented at right angles to the direction of glacial flow were protected from deep scouring, and placer gold concentrations in them may have survived. Such deposits have been found in the Livingstone Creek and Atlin areas.

Near the limits of glaciation, glacial erosion was reduced in intensity, and deposition of glacial debris occurred. In such areas, placer deposists may have been preserved under thick deposists of glacial drift. Deposits near Minto Lake, northwest of Mayo, are of this type.

The influence of glaciation may extend beyond the glacial limit. For example, the lower reaches of Hunker and Bonanza Creeks near Dawson City are about 15 km (10 miles) beyond the limit of glaciers. Gold bearing "White Channel" gravel deposits there are, however, covered by 40 metres (130 feet) of barren glaciofluvial outwash gravel.

Burial of deposits by detritus may occur due to processes other than glaciation. Detritus supplied by rapid erosion of uplifted areas may blanket entire valleys, such as those in the Matson Creek area, or may form a wedge thickening to one valley wall, such as that in the Indian River Valley near its mouth. In areas of permafrost, downslope movement of material on south-facing slopes due to freezing and thawing cycles in the active layer may cause a wedge of colluvium and rock to form. Examples of this are common in the Klondike area. Also common in the Klondike area are deposits of wind-blown silt and decayed organic material which blanket the valley bottoms.

Burial of deposits may also occur due to volcanism. Volcanic rocks 50 million years old blanket consolidated placer deposists in the McKinnon Creek and Sixty Mile areas. Volcanic rocks 15,000 years old blanket placer deposits at Ruby Creek in the Atlin area.

Where placer deposits have been buried by younger deposits, they are difficult to find unless they have been cut by younger streams. Where this has occurred, gold winnowed from the preglacial placer deposists and reconcentrated in present-day streams provides an indication of the preserved deposits. Such deposits include the "White Channel" deposits of the Klondike, "bench" deposits along the Sixty Mile River, and "yellow gravel" deposits at Pine and Spruce Creeks in the Atlin area.

Features in certain deposits suggest that the gold contained in them may have been deposited chemically from very small amounts of gold in groundwater. The gold may have been derived from concentrations already present in the gravel, or from bedrock. Such features are particularly well developed in the "White Channel" deposits of the Klondike, which are more than 1.5 million years old, and may be as much as 10 million years old.

PLACER MINING, PROCESSING, AND WASTE MANAGEMENT PRACTICES

Placer mining methods used depend upon the characteristics of the deposit being mined, and the scale of the mining operation. Mechanized equipment commonly used includes tracked bulldozers, and wheeled loaders. Also used, but less common, are tracked loaders, wheeled front end loader-backhoe combinations, wheeled scraper-loaders, tracked backhoes, and wheeled bulldozers. Equipment in the 170 to 375 horsepower range is most common. Where more than one type of equipment is used, the models of each type used usually have approximately the same horsepower.

Water power is used where mine site conditions and environmental regulations permit. It may simply be the normal flow of the watercourse, or it may be under gravity or pump pressure. Water removes material from a mine site more economically than any other method. Its use is particularly suited to the removal of black muck, for black muck is not normally processed through gold recovery systems, will not support mechanized equipment when thawed, is expensive to remove with mechanized equipment when frozen, and washes away readily when submitted to a flow of water over a prolonged period of time. Water power is also used to undercut steep banks of gravel and cause their collapse so that the gravel is available for processing through gold recovery systems.

In mechanized mining operations, tracked bulldozers with rippers are used to dislodge frozen gravel. After the gravel has thawed, the bulldozers push it into waste piles or stockpiles for processing, or push it directly into the gold recovery systems. Wheeled loaders sometimes mine material, and commonly feed the gold recovery systems with gravel obtained from stockpiles. Backhoes are also used to feed gold recovery systems from stockpiles. Wheeled scraper-loaders are used in large mining operations especially where the distance between the mining area and the gold recovery system is great. Most operations of average size have two, or possibly three pieces of equipment. Tracked loaders are usually used in small operations, in which they are often the only piece of equipment used. The equipment used for minng is also used to clear tailings away from the gold recovery systems followng processing.

One bucket-line dredge, and two underground placer mining operations were active in Yukon in 1982.

All the gold recovery systems used depend upon the high specific gravity of gold, and the action of flowing water to separate gold from gravel. The most common gold recovery system used is the sluice box. Many designs of sluice boxes are in use. All have a dump box into which gravel is fed, and at least one long, narrow channel through which the gravel is washed. The floor of the channel may be covered by matting and riffles, or it may have perforated steel plates suspended over it so that only fine grained material, commonly less than 16 mm (.63 inches) in diameter, passes over the riffles. Some less popular gold recovery systems depend upon centrifugal force to separate gold from gravel in revolving drums or spiral columns.

Some operations have primary classification systems to remove coarse material from the gravel before it reaches the gold recovery system. Such classification systems range from simple stationary iron grizzlies through oscillating iron plate gravel sorters to sophistocated multideck vibrating screening units. Primary classification systems have

numerous advantages including increasing the effective throughput of the gold recovery system, reducing the amount of water required for processing by as much as half, sometimes reducing the need for an employee to drag coarse material through the sluice box, and enhancing gold recovery.

Waste from ground preparation, or removal of material not containing gold may be solid, or a water-borne suspension, depend upon whether or not water was used in the work. Solid waste from stripping is usually stockpiled at the mine site. Water-borne waste may be impounded in settling ponds. Solid waste from processing through gold recovery systems is also usually stockpiled at the mine site. The water-borne suspension of clay and silt resulting from processing may be impounded in settling ponds.

Solid wastes may be rehabilitated to support new populations of flora and fauna. Rehabilitation may include levelling of waste and tailings piles, distribution of fine-grained material over coarse gravel to provide a rooting medium for plants, and distribution of seed. If fine-grained material is present, plant populations will normally re-establish themselves. The plant populations subsequent to mining flourish because they are present on a thawed substrata, rather than a frozen substrata as was present prior to mining. The plant species subsequent to mining are better suited to supporting moose and small fur-bearing animals than those present prior to mining.

Water-borne suspensions resulting from ground preparation and processing are of concern because of their effect on the aquatic environment. Settling ponds are used to allow as much material as possible to fall from the suspension. In tests conducted in Alaska, it was found that settling ponds are most efficient in removing particles .02 mm (.0008 inches) in diameter and larger from suspension. Such particles settled in 12 hours or less. Settling ponds were not efficient in removing particles finer than .02 mm (.0008 inches) in diameter. Such particles include fine silt, clay and organic colloids. To allow clay particles to settle from suspension, settling ponds with overflow rates of 1580 litres per minute per hectare (860 gallons per minute per acre) of pond area or less were required. The effectiveness of settling ponds in field situations was a function of the grain size distribution of the material being processed.

Flocculating agents were also tested in Alaska in an attempt to cause organic material in suspension to settle where water was used to strip black muck. The chemicals were found to be ineffective, and prohibitively costly. No consideration was given to possible deleterious environmental effects of the flocculating agents.

ECONOMIC FACTORS CONCERNING THE PLACER MINING INDUSTRY

There are two groups of economic factors concerning the placer mining industry. First is the group consisting of all factors affecting the cost of obtaining gold. Second is the group consisting of all factors affecting the value of the gold obtained.

Factors affecting the cost of obtaining gold include the characteristics of the deposit being mined. Geomorphologic constraints such as confined work areas, large boulders, and permafrost may dictate the use of certain mining methods. Thick layers of overburden may force removal of material without gold before gold-bearing deposits may be mined. Regulatory constraints may restrict the area to be mined, regardless of where the gold-bearing deposits are situated by prohibiting disruption of certain areas, or requiring waste-water treatment facilities within a property of limited size. Regardless of how much material is moved, however, the gold recovered from it must be greater in value than the total of all costs incurred in recovering the gold for the operation to be economic. It is thus in the miner's interest to move as little waste material as possible, to move what must be moved as few times as possible, and to move what must be moved as economically as possible.

Costs affecting placer mining have risen sharply over the past five years. Fuel and labour costs have doubled. Equipment costs have more than doubled. High interest rates have made loans for purchase of equipment prohibitively expensive. More strict environmental regulations have forced the use of more expensive mining methods in lieu of inexpensive methods using water, and have forced non-productive work to be done in construction and maintenance of settling ponds, creek diversions, and fish passageways.

The rush to begin placer mining during the period 1978 to 1982 saw many operators begin work on ground that was too low grade to support an economic mining operation in earlier years, or on ground which had been mined once, twice, or even three times previously. The average grade of material mined between 1941 and 1959, including much previously unmined ground, was approximately 0.016 crude ounces per cubic yard (.66 grams per cubic metre). The average grade of material mined between 1978 and 1982 must be lower than that.

Costs for mining operations in Yukon and the Atlin Mining Division of British Columbia vary from operation to operation. They ranged from $3. to $8. per cubic yard ($4. to $10.50 per cubic metre) in 1982, and were most often approximately $4.50 per cubic yard ($6.00 per cubic metre).

The value of gold recovered increased during the period 1978 to 1982, from approximately $200. U.S. to approximately $500. U.S. per ounce (6.45 U.S. to 16.08 U.S. per gram). Devaluation of the Canadian dollar has had the effect of a further increase of 20 per cent in the value of gold.

In late 1979 and 1980 the value of gold was approximately $600. U.S. per ounce ($19.29 U.S. per gram). At that time, the increase in the value of gold was significantly greater than the increase in mining costs, and mining of even low grade deposits could be done profitably. At the end of 1982, however, the situation had changed. The increase in costs was approaching the increase in the value of gold. The table below illustrates that at an average mining costs of $4.50 ($3.69 U.S.) per ounce, the "break even" value for ground containing 0.014 crude ounces of gold per yard (.58 grams per

cubic metre) is $329.50 U.S. per ounce of gold. Where the grade of deposits being mined is less than 0.014 crude ounces per cubic yard (.58 grams per cubic metre), or operating costs are higher than average, the "break even" value for gold is higher. It is worth noting that during part of the 1982 mining season, the value of gold was less than $329.50 U.S. per ounce.

EFFECTS OF GOLD CONTENT AND GOLD PRICE ON VALUE PER CUBIC YARD OF GRAVEL

Gold Content per Cubic Yard	Gold Value per Cubic Yard at Various Gold Prices		
	$300. U.S.	$400. U.S.	$500. U.S.
.014 crude ounces*	$3.36	$4.48	$5.60
.014 fine ounces	4.20	5.60	7.00
.016 crude ounces	3.84	5.12	6.40
.016 fine ounces	4.80	6.40	8.00
.018 crude ounces	4.32	5.76	7.20
.018 fine ounces	5.40	7.20	9.00

* gold fineness used is 800

IMPLICATIONS OF STUDY RESULTS

Implications of the study results are listed below in point form.

1. The placer mining has been important in the development and economies of Yukon and the Atlin Mining Division of British Columbia.

2. Should the price of gold increase again, there will be an increase in the count of placer dispositions staked and maintained in good standing.

3. Such new dispositions will be peripheral to or away from historic mining areas. Placer dispositions in good standing already cover historic mining areas.

4. The placer mining industry is important in the present economies of Yukon and the Atlin Mining Divisions of British Columbia.

5. With depletion of reserves in historic mining areas, new operations in future years will be peripheral to, our away from those areas. This, of course, requires that the gold price is high enough to stimulate exploration for new deposits, and to support economic mining operations.

6. Much of Yukon and the Atlin Mining District of British Columbia is geologically suited to hosting economic placer gold deposits. Local geologic conditions may, however, render such deposits difficult to locate or uneconomic to mine.

7. Significant benefits including a reduction in water use in gold recovery systems may be obtained by the incorporation of a grizzly or other classification device into the gold recovery system.

8. Rehabilitation of surficial deposits is not difficult especially if areas are used sequentially first as repositories of coarse tailings and then as settling ponds where fine tailings are deposited.

9. Removal of suspended material of coarse silt or coarser grain size may be achieved by storing water carrying suspended sediments in settling ponds for 12 hours.

10. Removal of suspended material of fine silt or finer grain size is difficult to achieve in settling ponds. Flocculating agents are not a solution to this problem.

11. Space limitations may restrict construction of settling ponds. Costs may cause expenditures relating to construction of extensive settling facilities to render mining operations uneconomic. Assuming that a valid reason exists for requiring suspended material be removed from water, a three part system including grizzly or other classification device, and primary and secondary settling ponds with possible recirculation of some or all water from the secondary pond would provide water of the best quality possible for return to receiving waters.

12. Mining costs were close to the value of gold recovered at average mining operations in 1982. Either a reduction of mining costs, or an increase in the price of gold must occur or many mining operations will cease work.

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